

Supplement to the NFC 2010: Intent Statements

Issued by the
Canadian Commission on Building and Fire Codes
National Research Council of Canada

First Release 2011

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ISBN 0-660-19980-1
NR20-4/1-2010E

NRCC 53303

Published in Canada

Aussi disponible en français :
Supplément au CNPI 2010 : Énoncés d'intention
CNRC 53303F
ISBN 0-660-97383-8

Introduction

Background

The 2010 edition of the National Model Construction Codes is presented in a format called “objective-based codes” that is structured in three Divisions (A, B and C). The Codes contain explicitly defined objectives and functional statements (see Division A), which are statements on the functions that the components of a building or facility must perform and the objectives that these functions must satisfy. Most of the Code provisions in Division B—called acceptable solutions—are linked to at least one of those objectives and functional statements.

The objectives and functional statements are developed through a process called “bottom-up analysis,” which involves the analysis of each provision in Division B of the Codes to determine its intent and then derive applicable objectives and functional statements. The bottom-up analysis is carried out by the standing committees of the Canadian Commission on Building and Fire Codes (CCBFC) with extensive support from the staff of the Canadian Codes Centre (CCC). The technical changes that were incorporated into Division B of the 2010 Codes also underwent the same bottom-up analysis.

NOTA: Application statements were published along with intent statements for the 2005 edition of the Codes. Intent and application statements, which are additional, non-mandatory information and not an integral part of the Codes, provide guidance to Code users. The intent statements contain useful information not available elsewhere that helps users understand the rationale behind each requirement. This contributes to a more accurate interpretation and application of acceptable solutions and a clearer understanding of what alternative solutions should achieve.

Unlike intent statements, application statements repeat the Code provisions in whole or in part and contain information that can be derived from reading related Code requirements. Following a review of the information in the application statements, and given the significant effort required to update them each Code cycle, the CCBFC concluded that maintaining the application statements was an unproductive use of resources and has therefore discontinued their publication.

The 2010 intent statements are included in the on-line versions of the 2010 Codes and are also available for viewing by users of the printed versions of the Codes.

Understanding the Content of the Supplement to the NFC 2010: Intent Statements

Only the provisions in Part 2 of Division B (i.e. the acceptable solutions not including their Appendix Notes) have intent and application statements and, if applicable, objectives and functional statements.

Clicking on a Sentence reference in the left-hand portion of the screen brings up an analysis window on the right-hand side, which contains that Sentence's applicable objectives, attributions and intent and application statements.

Code Reference

For the most part, entire Sentences are analyzed as units of text. In such cases, only the Sentence number is identified in the analysis window and the actual text of the Sentence can be found in the printed Code. In some instances, however, the analysis applies to only a portion of a Sentence; in such cases, the Clause or Subclause being analyzed is identified in the field entitled “Attribution” or the portion of text being analyzed is quoted or summarized in that field and introduced by the phrase “Applies to.”

Objective

The objectives attributed to the provisions or portions of provisions in Division B are derived from the bottom-up analysis. Each analysis window contains tabs displaying the acronyms for each objective attributed to the text being analyzed. Clicking on a tab reveals a panel containing the information related to

that objective attribution, e.g. OP1 Indoor Conditions.

Some provisions or portions of provisions in Division B have no objectives attributed to them. In such instances, the tab will display the symbol “+” rather than an objective such as OP1, OS3, etc. See a related discussion below under “Intent.”

Attribution

The specific functional statements and sub-objectives attributed to the text being analyzed are presented in square brackets in the Attribution field. If the attributions and analysis (i.e. intent and application statements) apply to the entire Sentence, no explanatory text will appear before or after the square brackets; if they apply to only a portion of a Sentence, the square brackets will either be preceded by the Clause or Subclause identifier, or followed by a phrase beginning with “Applies to,” which specifies which portion of the Sentence the attributions and analysis apply to.

Intent

An intent statement explains the purpose of a provision or portion of provision found in Division B. It reveals what the standing committee was trying to achieve by introducing the Code provision in the first place or what the Code-user community has come to understand as the reason for the provision's existence.

Generally speaking, intent statements present the consequences of non-compliance with a requirement. They try to answer the question “What are the undesirable thing(s) that might happen if this provision is not complied with?” In many cases, the initial consequences of non-compliance may lead to a chain of consequences; the link between those consequences and the overall objective of the provision may only become apparent in the description of the latter consequences in the chain. All functional statements and objectives identified in Division A and attributed to the provisions in Division B of the 2010 Codes are derived from the intent statements.

Not all Code provisions are technical requirements; some act as definitions, clarifications, application modifiers or pointers to another provision. In such cases, the intent statement explains the role the provision plays in the Code and there is no chain of consequences. These types of provisions have no objectives or functional statements attributed to them. Appendix Note A-1.1.2.1.(1) in Division B of the Code provides information on how these types of provisions shall be interpreted in regards to their relation to objectives and functional statements.

Serious effort was put into using a consistent, logical approach and standardized set of phrases and terms in the development of the intent statements. It is the ongoing responsibility of the standing committees to maintain, update and improve the intent and application statements over time. Any suggestions towards these endeavours are welcome.

“To Limit the Probability”

Many of the hazards and undesirable events the Codes address, such as deterioration, spread of fire and heat loss, can only be minimized, retarded or controlled through compliance; other undesirable events such as the ignition of fire or structural collapse can never be prevented with absolute assurance. This is why the phrase “to limit the probability” is used in the intent statements rather than “to prevent.”

Using the phrase “to prevent” would mean that it is possible to comply fully with a requirement but still not meet its intent. The phrase “to limit the probability” was therefore adopted to clearly convey the notion that the Codes do not and cannot provide absolute protection.

Defined Terms

1) The words and terms in italics in this Code shall have the following meanings:

Access to exit means that part of a means of egress within a floor area that provides access to an exit serving the floor area.

Air-supported structure means a structure consisting of a pliable membrane that achieves and maintains its shape and support by internal air pressure.

Appliance means a device to convert fuel into energy and includes all components, controls, wiring and piping required to be part of the device by the applicable standard referred to in this Code.

Assembly occupancy (Group A) means the occupancy or the use of a building, or part thereof, by a gathering of persons for civic, political, travel, religious, social, educational, recreational or like purposes, or for the consumption of food or drink.

Atmospheric storage tank means a storage tank designed to operate at pressures from atmospheric to 3.5 kPa (gauge).

Authority having jurisdiction means the governmental body responsible for the enforcement of any part of this Code or the official or agency designated by that body to exercise such a function.

Basement means a storey or storeys of a building located below the first storey.

Breeching means a flue pipe or chamber for receiving flue gases from one or more flue connections and for discharging these gases through a single flue connection.

Building means any structure used or intended for supporting or sheltering any use or occupancy.

Business and personal services occupancy (Group D) means the occupancy or use of a building or part thereof for the transaction of business or the rendering or receiving of professional or personal services.

Care means the provision of services other than treatment by or through care facility management to residents who require these services because of cognitive, physical or behavioural limitations.

Care occupancy (Group B, Division 3) means the occupancy or use of a building or part thereof where care is provided to residents. (See Appendix A.)

Chimney means a primarily vertical shaft enclosing at least one flue for conducting flue gases to the outdoors.

Class B fire means a fire involving a flammable liquid or combustible liquid, fat or grease.

Closed container means a container sealed by means of a lid or other device such that neither liquid nor vapour will escape from it at ordinary temperatures.

Closure means a device or assembly for closing an opening through a fire separation or an exterior wall, such as a door, a shutter, wired glass or glass block, and includes all components such as hardware, closing devices, frames and anchors.

Combustible construction means that type of construction that does not meet the requirements for noncombustible construction.

Combustible dusts means dusts and particles that are ignitable and liable to produce an explosion.

Combustible fibres means finely divided, combustible vegetable or animal fibres and thin sheets or flakes of such materials which, in a loose, unbaled condition, present a flash fire hazard, including cotton, wool, hemp, sisal, jute, kapok, paper and cloth.

Combustible liquid means a liquid having a flash point at or above 37.8°C and below 93.3°C. (See Subsection 4.1.2. of Division B.)

Dangerous goods means those products or substances that are regulated by (See

Table 3.2.7.1. of Division B.)

Detention occupancy (Group B, Division 1) means the occupancy by persons who are restrained from or are incapable of evacuating to a safe location without the assistance of another person because of security measures not under their control.

Dispenser sump means a liquid-tight container intended for installation under a dispensing unit for the collection of any internal leakage of flammable liquid and combustible liquid from the dispensing unit.

Distilled beverage alcohol means a beverage that is produced by fermentation and contains more than 20% by volume of water-miscible alcohol.

Distillery means a process plant where distilled beverage alcohols are produced, concentrated or otherwise processed, and includes facilities on the same site where the concentrated products may be blended, mixed, stored or packaged.

Dwelling unit means a suite operated as a housekeeping unit, used or intended to be used by one or more persons and usually containing cooking, eating, living, sleeping and sanitary facilities.

Exit means that part of a means of egress, including doorways, that leads from the floor area it serves to a separate building, an open public thoroughfare, or an exterior open space protected from fire exposure from the building and having access to an open public thoroughfare. (See Appendix A.)

Fire compartment means an enclosed space in a building that is separated from all other parts of the building by enclosing construction providing a fire separation having a required fire-resistance rating.

Fire damper means a closure consisting of a damper that is installed in an air distribution system or a wall or floor assembly and that is normally held open but designed to close automatically in the event of a fire in order to maintain the integrity of the fire separation.

Fire-protection rating means the time in minutes or hours that a closure will withstand the passage of flame when exposed to fire under specified conditions of test and performance criteria, or as otherwise prescribed in the National Building Code of Canada 2010.

Fire-resistance rating means the time in minutes or hours that a material or assembly of materials will withstand the passage of flame and the transmission of heat when exposed to fire under specified conditions of test and performance criteria, or as determined by extension or interpretation of information derived therefrom as prescribed in the National Building Code of Canada 2010. (See Appendix A.)

Fire separation means a construction assembly that acts as a barrier against the spread of fire. (See Appendix A.)

Fire stop flap means a device intended for use in horizontal assemblies required to have a fire-resistance rating and incorporating protective ceiling membranes that operates to close off a duct opening through the membrane in the event of a fire.

Firewall means a type of fire separation of noncombustible construction that subdivides a building or separates adjoining buildings to resist the spread of fire and that has a fire-resistance rating as prescribed in this Code and has structural stability to remain intact under fire conditions for the required fire-rated time.

First storey means the uppermost storey having its floor level not more than 2 m above grade.

Flame-spread rating means an index or classification indicating the extent of spread-of-flame on the surface of a material or an assembly of materials as determined in a standard fire test as prescribed in the National Building Code of Canada 2010.

Flammable liquid means a liquid having a flash point below 37.8°C and having a vapour pressure not

more than 275.8 kPa (absolute) at 37.8°C as determined by (See Subsection 4.1.2. of Division B.)

Flash point means the minimum temperature at which a liquid within a container gives off vapour in sufficient concentration to form an ignitable mixture with air near the surface of the liquid. (See Subsection 4.1.3. of Division B.)

Floor area means the space on any storey of a building between exterior walls and required firewalls, including the space occupied by interior walls and partitions, but not including exits, vertical service spaces, and their enclosing assemblies.

Flue means an enclosed passageway for conveying flue gases.

Flue collar means the portion of a fuel-fired appliance designed for the attachment of the flue pipe or breeching.

Flue pipe means the pipe connecting the flue collar of an appliance to a chimney.

Fuel-dispensing station means any premises or part thereof at which flammable liquids or combustible liquids are dispensed from fixed equipment into the fuel tanks of motor vehicles, watercraft or floatplanes.

Grade means the lowest of the average levels of finished ground adjoining each exterior wall of a building, except that localized depressions need not be considered in the determination of average levels of finished ground. (See First storey and Appendix A.)

High-hazard industrial occupancy (Group F, Division 1) means an industrial occupancy containing sufficient quantities of highly combustible and flammable or explosive materials which, because of their inherent characteristics, constitute a special fire hazard.

Individual storage area means the area occupied by piles, bin boxes, racks or shelves, including subsidiary aisles providing access to the stored products, and separated from adjacent storage by aisles not less than 2.4 m in width. (See Appendix A.)

Industrial occupancy (Group F) means the occupancy or use of a building or part thereof for the assembling, fabricating, manufacturing, processing, repairing or storing of goods and materials.

Interconnected floor space means superimposed floor areas or parts of floor areas in which floor assemblies that are required to be fire separations are penetrated by openings that are not provided with closures.

Low-hazard industrial occupancy (Group F, Division 3) means an industrial occupancy in which the combustible content is not more than 50 kg/m² or 1200 MJ/m² of floor area.

Low pressure storage tank means a storage tank designed to operate at pressures greater than 3.5 kPa (gauge) and up to 100 kPa (gauge).

Lower explosive limit means the minimum concentration of vapour in air at which the propagation of flame occurs on contact with a source of ignition.

Major occupancy means the principal occupancy for which a building or part thereof is used or intended to be used, and shall be deemed to include the subsidiary occupancies that are an integral part of the principal occupancy. The major occupancy classifications used in this Code are as follows:

- | | |
|----|---|
| A1 | Assembly occupancies intended for the production and viewing of the performing arts |
| A2 | Assembly occupancies not elsewhere classified in Group A |
| A3 | Assembly occupancies of the arena type |
| A4 | Assembly occupancies in which the occupants are gathered in the open air |
| B1 | Detention occupancies in which persons are under restraint or are incapable of self-preservation because of security measures not under their control |
| B2 | Treatment occupancies |

B3	Care occupancies
C	Residential occupancies
D	Business and personal services occupancies
E	Mercantile occupancies
F1	High-hazard industrial occupancies
F2	Medium-hazard industrial occupancies
F3	Low-hazard industrial occupancies

Marine fuel-dispensing station means a fuel-dispensing station at which flammable liquids or combustible liquids are dispensed into the fuel tanks of watercraft or floatplanes.

Means of egress means a continuous path of travel provided for the escape of persons from any point in a building or contained open space to a separate building, an open public thoroughfare, or an exterior open space protected from fire exposure from the building and having access to an open public thoroughfare. Means of egress includes exits and access to exits.

Medium-hazard industrial occupancy (Group F, Division 2) means an industrial occupancy in which the combustible content is more than 50 kg/m² or 1200 MJ/m² of floor area and not classified as a high-hazard industrial occupancy.

Mercantile occupancy (Group E) means the occupancy or use of a building or part thereof for the displaying or selling of retail goods, wares or merchandise.

Noncombustible construction means that type of construction in which a degree of fire safety is attained by the use of noncombustible materials for structural members and other building assemblies.

Occupancy means the use or intended use of a building or part thereof for the shelter or support of persons, animals or property.

Occupant load means the number of persons for which a building or part thereof is designed.

Partition means an interior wall 1 storey or part-storey in height that is not loadbearing.

Pressure vessel means a storage tank designed to operate at pressures greater than 100 kPa (gauge).

Process plant means an industrial occupancy where materials, including flammable liquids, combustible liquids or gases, are produced or used in a process. (See Table 3.2.7.1. of Division B.)

Rack means any combination of vertical, horizontal or diagonal members that support stored materials on solid or open shelves, including both fixed and portable units.

Refinery means any process plant in which flammable liquids or combustible liquids are produced from crude petroleum, including areas on the same site where the resulting products are blended, packaged or stored on a commercial scale.

Residential occupancy (Group C) means the occupancy or use of a building or part thereof by persons for whom sleeping accommodation is provided but who are not harboured for the purpose of receiving care or treatment and are not involuntarily detained.

Self-service outlet means a fuel-dispensing station other than a marine fuel-dispensing station where the public handles the dispenser.

Service room means a room provided in a building to contain equipment associated with building services. (See Appendix A.)

Service space means space provided in a building to facilitate or conceal the installation of building service facilities such as chutes, ducts, pipes, shafts or wires.

Smoke alarm means a combined smoke detector and audible alarm device designed to sound an alarm within the room or suite in which it is located upon the detection of smoke within that room or suite.

Spill containment sump means a liquid-tight container intended to catch, retain and provide for the evacuation of any product at the time of filling.

Sprinklered (as applying to a building or part thereof) means that the building or part thereof is equipped with a system of automatic sprinklers.

Storage tank means a vessel for flammable liquids or combustible liquids having a capacity of more than 230 L, and designed to be installed in a fixed location.

Storey means that portion of a building situated between the top of any floor and the top of the floor next above it, and if there is no floor above it, that portion between the top of such floor and the ceiling above it.

Street means any highway, road, boulevard, square or other improved thoroughfare 9 m or more in width, that has been dedicated or deeded for public use and is accessible to fire department vehicles and equipment.

Suite means a single room or series of rooms of complementary use, operated under a single tenancy, and includes dwelling units, individual guest rooms in motels, hotels, boarding houses, rooming houses and dormitories as well as individual stores and individual or complementary rooms for business and personal services occupancies. (See Appendix A.)

Supervisory staff means those occupants of a building who have some delegated responsibility for the fire safety of other occupants under the fire safety plan.

Tank vehicle means any vehicle, other than railroad tank cars and boats, with a cargo tank having a capacity of more than 450 L, mounted or built as an integral part of the vehicle and used for the transportation of flammable liquids or combustible liquids and including tank trucks, trailers and semi-trailers.

Transition sump means an underground liquid-tight container intended for installation where mechanical connection or transition takes place for the collection of any internal leakage of flammable liquid and combustible liquid.

Treatment means the provision of medical or other health-related intervention to persons, where the administration or lack of administration of these interventions may render them incapable of evacuating to a safe location without the assistance of another person. (See Appendix A).

Treatment occupancy (Group B, Division 2) means the occupancy or use of a building or part thereof for the provision of treatment, and where overnight accommodation is available to facilitate the treatment. (See Appendix A.)

Turbine sump means a container designed to provide access to equipment and to contain minor leakage, and installed to prevent water ingress.

Unstable liquid means a liquid, including flammable liquids and combustible liquids, that is chemically reactive to the extent that it will vigorously react or decompose at or near normal temperature and pressure conditions or that is chemically unstable when subject to impact.

Vertical service space means a shaft oriented essentially vertically that is provided in a building to facilitate the installation of building services including mechanical, electrical and plumbing installations and facilities such as elevators, refuse chutes and linen chutes.

Objectives

1) The objectives of this Code are as follows (see Appendix A):

OS Safety

An objective of this Code is to limit the probability that, as a result of specific circumstances related to the building or facility, a person in or adjacent to the building or facility will be exposed to an unacceptable risk of injury.

OS1 Fire Safety

An objective of this Code is to limit the probability that, as a result of

- a. activities related to the construction, use or demolition of the building or facility,
- b. the condition of specific elements of the building or facility,
- c. the design or construction of specific elements of the facility related to certain hazards, or
- d. inadequate built-in protection measures for the current or intended use of the building,

a person in or adjacent to the building or facility will be exposed to an unacceptable risk of injury due to fire. The risks of injury due to fire addressed in this Code are those caused by—

OS1.1 - fire or explosion occurring

OS1.2 - fire or explosion impacting areas beyond its point of origin

OS1.3 - collapse of physical elements due to a fire or explosion

OS1.4 - fire safety systems failing to function as expected

OS1.5 - persons being delayed in or impeded from moving to a safe place during a fire emergency

OS3 Safety in Use

An objective of this Code is to limit the probability that, as a result of

- a. activities related to the construction, use or demolition of the building or facility,
- b. the condition of specific elements of the building or facility,
- c. the design or construction of specific elements of the facility related to certain hazards, or
- d. inadequate built-in protection measures for the current or intended use of the building,

a person in or adjacent to the building or facility will be exposed to an unacceptable risk of injury due to hazards. The risks of injury due to hazards addressed in this Code are those caused by—

OS3.1 - tripping, slipping, falling, contact, drowning or collision

OS3.2 - contact with hot surfaces or substances

OS3.3 - contact with energized equipment

OS3.4 - exposure to hazardous substances

OS3.7 - persons being delayed in or impeded from moving to a safe place during an emergency (see Appendix A)

OH Health

An objective of this Code is to limit the probability that, as a result of specific circumstances related to the building or facility, a person will be exposed to an unacceptable risk of illness.

OH5 Hazardous Substances Containment

An objective of this Code is to limit the probability that, as a result of

- a. activities related to the construction, use or demolition of the building or facility,
- b. the condition of specific elements of the building or facility,
- c. the design or construction of specific elements of the facility related to certain hazards, or
- d. inadequate built-in protection measures for the current or intended use of the building,

the public will be exposed to an unacceptable risk of illness due to the release of hazardous substances from the building or facility.

OP Fire Protection of Buildings and Facilities

An objective of this Code is to limit the probability that, as a result of specific circumstances related to the building or facility, the building or facility will be exposed to an unacceptable risk of damage due to fire.

OP1 Fire Protection of the Building or Facility

An objective of this Code is to limit the probability that, as a result of

- a. activities related to the construction, use or demolition of the building or facility,
- b. the condition of specific elements of the building or facility,
- c. the design or construction of specific elements of the facility related to certain hazards, or
- d. inadequate built-in protection measures for the current or intended use of the building,

the building or facility will be exposed to an unacceptable risk of damage due to fire. The risks of damage due to fire addressed in this Code are those caused by—

OP1.1 - fire or explosion occurring

OP1.2 - fire or explosion impacting areas beyond its point of origin

OP1.3 - collapse of physical elements due to a fire or explosion

OP1.4 - fire safety systems failing to function as expected

OP3 Protection of Adjacent Buildings or Facilities from Fire

An objective of this Code is to limit the probability that, as a result of

- a. activities related to the construction, use or demolition of the building or facility,
- b. the condition of specific elements of the building or facility,
- c. the design or construction of specific elements of the facility related to certain hazards, or
- d. inadequate built-in protection measures for the current or intended use of the building,

adjacent buildings or facilities will be exposed to an unacceptable risk of damage due to fire. The risks of damage to adjacent buildings and facilities due to fire

addressed in this Code are those caused by—

OP3.1 - fire or explosion impacting areas beyond the building or facility of origin

Functional Statements

- 1) The objectives of this Code are achieved by measures, such as those described in the acceptable solutions in Division B, that are intended to allow the building or facility or its elements to perform the following functions (see Appendix A):
 - F01** To minimize the risk of accidental ignition.
 - F02** To limit the severity and effects of fire or explosions.
 - F03** To retard the effects of fire on areas beyond its point of origin.
 - F04** To retard failure or collapse due to the effects of fire.
 - F05** To retard the effects of fire on emergency egress facilities.
 - F06** To retard the effects of fire on facilities for notification, suppression and emergency response.
 - F10** To facilitate the timely movement of persons to a safe place in an emergency.
 - F11** To notify persons, in a timely manner, of the need to take action in an emergency.
 - F12** To facilitate emergency response.
 - F13** To notify emergency responders, in a timely manner, of the need to take action in an emergency.
 - F20** To support and withstand expected loads and forces.
 - F21** To limit or accommodate dimensional change.
 - F22** To limit movement under expected loads and forces.
 - F30** To minimize the risk of injury to persons as a result of tripping, slipping, falling, contact, drowning or collision.
 - F31** To minimize the risk of injury to persons as a result of contact with hot surfaces or substances.
 - F32** To minimize the risk of injury to persons as a result of contact with energized equipment.
 - F34** To resist or discourage unwanted access or entry.
 - F36** To minimize the risk that persons will be trapped in confined spaces.
 - F40** To limit the level of contaminants.
 - F43** To minimize the risk of release of hazardous substances.
 - F44** To limit the spread of hazardous substances beyond their point of release.
 - F51** To maintain appropriate air and surface temperatures.
 - F52** To maintain appropriate relative humidity.
 - F53** To maintain appropriate indoor/outdoor air pressure differences.
 - F80** To resist deterioration resulting from expected service conditions.
 - F81** To minimize the risk of malfunction, interference, damage, tampering, lack of use or misuse.
 - F82** To minimize the risk of inadequate performance due to improper maintenance or lack of maintenance.

Intent Statements: NFC 2010

Provision: 2.1.1.1.(1)

Intent(s)

Intent 1. To state the application of Part 2.

Provision: 2.1.2.1.(1)

Intent(s)

Intent 1. To classify buildings or parts of buildings based on use and occupancy in order to determine applicable requirements in the Code.

Provision: 2.1.2.2.(1)

Objective

OS3

Attributions

[F01, F30, F31, F43, F32, F81-OS3.1, OS3.2, OS3.3, OS3.4]

Intent(s)

Intent 1. To limit the probability that certain activities inside buildings will lead to unsafe conditions, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.2]

Intent(s)

Intent 1. To limit the probability that certain activities inside buildings will lead to a fire or explosion, which could lead to damage to the building.

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that certain activities inside buildings will lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.1.2.2.(2)

Objective

OS1

Attributions

[F02, F03-OS1.2] [F10-OS1.5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that an explosion or rapidly developing fire originating in a high-hazard industrial major occupancy will lead to harm to persons in an assembly, residential, care, treatment or detention occupancy, all of which require extended evacuation time.

Provision: 2.1.3.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings, in regard to the design and installation of fire alarm, standpipe and sprinkler systems, where such systems are determined to be required.

Provision: 2.1.3.1.(2)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that the protective capacity of existing fire protection systems will be inadequate in a fire, which could lead to the growth and spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that the protective capacity of existing fire protection systems will be inadequate in a fire, which could lead to the growth and spread of fire, which could lead to harm to persons.

Provision: 2.1.3.2.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings, in regard to the design and installation of voice communication systems or systems integrated with general fire alarm systems, where such systems are determined to be required.

Provision: 2.1.3.3.(1)

Objective

OS1

Attributions

[F81, F11-OS1.5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that smoke alarms will not meet proper standards, which could lead to such devices not performing in the way intended in a fire situation, which could lead to persons not being properly notified of the fire, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Intent 2. To limit the probability that a fire will not be detected in dwelling units or sleeping rooms, which could lead to persons in such rooms not being promptly notified of the fire, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.1.3.3.(2)

Objective

OS1

Attributions

[F11-OS1.5]

Intent(s)

Intent 1. To limit the probability that persons in sleeping rooms will not be notified of a fire in the dwelling unit, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.1.3.3.(3)

Objective

OS1

Attributions

[F11, F81-OS1.5]

Intent(s)

Intent 1. To limit the probability that smoke alarms will not meet proper standards, which could lead to such devices not performing in the way intended in a fire situation, which could lead to persons not being properly notified of the fire, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent 2. To limit the probability that a fire will not be detected in dwelling units or sleeping rooms, which could lead to persons in such rooms not being promptly notified of the fire, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 2.1.3.3.(4)

Intent(s)

Intent 1. To clarify that smoke alarms are permitted to be battery powered.

Provision: 2.1.3.4.(1)

Objective

OS1

Attributions

[F06, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire protection for combustible sprinkler piping will not be maintained to the level of protection originally intended, which could lead to the premature failure of the sprinkler piping in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F06, F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire protection for combustible sprinkler piping will not be maintained to the level of protection originally intended, which could lead to the premature failure of the sprinkler piping in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire to other parts of the building,, which could lead to damage to the building or facility.

Objective

OP3

Attributions

[F06, F82-OP3.1]

Intent(s)

Intent 1. To limit the probability that fire protection for combustible sprinkler piping will not be maintained to the level of protection originally intended, which could lead to the premature failure of the sprinkler piping in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 2.1.3.5.(1)

Intent(s)

Intent 1. To state the application of Sentences 2.1.3.5.(3) and 2.1.3.5.(4).

Provision: 2.1.3.5.(2)

Objective

OS1

Attributions

[F02, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that special fire suppression systems will not suppress or control a fire, which could lead to the spread of the fire to other parts of the building, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F02, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that special fire suppression systems will not suppress or control a fire, which could lead to the spread of the fire to other parts of the building, which could lead to damage to the building or facility.

Provision: 2.1.3.5.(3)

Objective

OS1

Attributions

[F02, F81-OS1.2] [F81-OS1.4]

Intent(s)

Intent 1. To limit the probability that special fire suppression systems that are not water-based will fail to function as expected due to malfunction, damage, tampering or misuse and will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F81-OP1.2] [F81-OP1.4]

Intent(s)

Intent 1. To limit the probability that special fire suppression systems that are not water-based will fail to function as expected due to malfunction, damage, tampering or misuse and will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building or facility.

Provision: 2.1.3.5.(4)

Objective

OS1

Attributions

[F02, F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that water-based special fire suppression systems will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that water-based special fire suppression systems will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 2.1.3.5.(5)

Objective

OS1

Attributions

[F02, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that water-based special fire suppression systems will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that water-based special fire suppression systems will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 2.1.3.5.(6)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that special fire suppression systems will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that special fire suppression systems will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 2.1.3.5.(7)

Objective

OP1

Attributions

[F82, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that persons will not know the proper procedures for operating special fire suppression systems in a fire situation, which could lead to delays in suppressing or controlling the fire, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building.

Intent 2. To limit the probability that special fire suppression systems will not be properly maintained, which could lead to the equipment not operating as originally intended in a fire situation, which could lead to ineffectiveness in suppressing or controlling the fire, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building.

Objective

OS1

Attributions

[F82, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that persons will not know the proper procedures for operating special fire suppression systems in a fire situation, which could lead to delays in suppressing or controlling the fire, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To limit the probability that special fire suppression systems will not be properly maintained, which could lead to the equipment not operating as originally intended in a fire situation, which could lead to ineffectiveness in suppressing or controlling the fire, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Provision: 2.1.3.5.(8)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that delays will occur in identifying and accessing valves and controls for special fire suppression systems in a fire situation, which could lead to delays in suppressing or controlling the fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that delays will occur in identifying and accessing valves and controls for special fire suppression systems in a fire situation, which could lead to delays in suppressing or controlling the fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 2.1.3.6.(1)

Objective

OP1

Attributions

[F02, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent(s)

Intent 1. To supersede [additions and exceptions] the requirements of the National Building Code of Canada, with respect to the design and installation of automatic sprinkler systems in buildings.

Provision: 2.1.3.7.(1)

Intent(s)

Intent 1. To direct Code users to other parts of the Code for requirements regarding the inspection, testing and maintenance of fire safety devices.

Provision: 2.1.3.7.(2)

Objective

OS1

Attributions

[F82-OS1.4]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that fire safety devices will not operate as originally intended in an emergency situation, which could lead to the spread of fire or contaminants to other parts of the building, which could lead to harm to persons.

Provision: 2.1.3.8.(1)

Objective

OS1

Attributions

[F02, F81, F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that integrated life safety and fire protection systems will not meet proper standards, which could lead to such systems not performing in the way intended in a fire situation, which could lead to an inadequate water supply to fire suppression systems, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that the integrated life safety and fire protection systems will not operate as originally intended in a fire situation, which could lead to persons not being promptly notified of the fire, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F81, F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that the integrated life safety and fire protection systems will not meet proper standards, which could lead to such systems not performing in the way intended in a fire situation, which could lead to an inadequate water supply to fire suppression systems, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building or facility.

Provision: 2.1.4.1.(1)

Objective

OS1

Attributions

[F12, F10, F82, F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that persons, including emergency responders, will be uninformed or misinformed, which could lead to delays or ineffectiveness in response to an accident or hazardous situation, which could lead to a fire or the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 2.1.4.1.(2)

Intent(s)

Intent 1. To exempt signs of a temporary nature from the requirements of Sentence 2.1.4.1.(1).

Provision: 2.1.4.2.(1)

Intent(s)

Intent 1. To expand the posting requirements of Article 2.1.4.1. to the ongoing maintenance of signs, notices, placards or information.

Provision: 2.1.5.1.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that persons will not have the capability to suppress a fire, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To exclude dwelling units from the requirement to install portable extinguishers.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that persons will not have the capability to suppress a fire, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Intent 2. To exclude dwelling units from the requirement to install portable extinguishers.

Provision: 2.1.5.1.(2)

Objective

OS1

Attributions

[F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will not be appropriately selected for the type of fire hazard present, which could lead to ineffectiveness in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To limit the probability that portable extinguishers will not be readily accessible, which could lead to delays in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will not be appropriately selected for the type of fire hazard present, which could lead to ineffectiveness in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Intent 2. To limit the probability that portable extinguishers will not be readily accessible, which could lead to delays in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 2.1.5.1.(3)

Objective

OS1

Attributions

[F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will not perform as intended for the type of fire hazard present, which could lead to ineffectiveness in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To supersede the requirements stated in Sentence (2) relating to the performance of portable extinguishers.

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will not perform as intended for the type of fire hazard present, which could lead to ineffectiveness in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Intent 2. To supersede the requirements stated in Sentence (2) relating to the performance of portable extinguishers.

Provision: 2.1.5.1.(4)

Objective

OS1

Attributions

[F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will not be appropriately rated and identified for the fire hazard present, which could lead to ineffectiveness in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To supersede the requirements stated in Sentence (2) relating to the rating and identification of portable extinguishers.

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will not be appropriately rated and identified for the fire hazard present, which could lead to ineffectiveness in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Intent 2. To supersede the requirements stated in Sentence (2) relating to the rating and identification of portable extinguishers.

Provision: 2.1.5.1.(5)

Objective

OS1

Attributions

[F12, F06-OS1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will not be readily accessible, which could lead to delays in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To limit the probability that a person will be exposed to a fire while trying to reach an extinguisher, which could lead to harm to the person.

Objective

OP1

Attributions

[F12, F06-OP1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that portable extinguishers will not be readily accessible, which could lead to delays in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 2.1.5.1.(6)

Objective

OP1

Attributions

[F80-OP1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will become corroded, which could lead to the extinguishers not operating as originally intended in a fire situation, which could lead to ineffectiveness in carrying out fire suppression operations, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F80-OS1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will become corroded, which could lead to the extinguishers not operating as originally intended in a fire situation, which could lead to ineffectiveness in carrying out fire suppression operations, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Provision: 2.2.1.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings, in regard to the separation of major occupancies.

Provision: 2.2.1.1.(2)

Objective

OP1

Attributions

[F03-OP1.2] Applies to conformance with the NBC.

Intent(s)

Intent 1. To limit the probability that an explosion or rapidly developing fire originating in a high hazard industrial occupancy will lead to damage to the building or facility.

Intent 2. To require upgrading of fire separations in existing buildings to the standards for new buildings in the National Building Code.

Objective

OS1

Attributions

[F03-OS1.2] Applies to conformance with the NBC.

Intent(s)

Intent 1. To limit the probability that an explosion or rapidly developing fire originating in a high hazard industrial occupancy will lead to harm to persons in other parts of the building.

Intent 2. To require upgrading of fire separations in existing buildings to the standards for new buildings in the National Building Code of Canada.

Intent(s)

Intent 1. To direct Code users to other parts of the Code [NFC] in regard to the fire separation of high hazard industrial occupancies.

Provision: 2.2.1.1.(3)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings, in regard to the fire separation of rooms, corridors, shafts and other spaces.

Provision: 2.2.1.2.(1)

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire will spread from one side of the fire separation to the other side of the separation, which could lead to damage to the building on the other side of the separation.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire will spread from one side of the fire separation to the other side of the separation, which could lead to harm to persons on the other side of the separation.

Provision: 2.2.2.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada [specifically NBC Articles 3.1.8.4. to 3.1.8.17. and Subsections 3.1.9. and 3.2.8.] to existing buildings, in regard to the protection of openings [closures] in fire separations.

Intent Statements: NFC 2010

Provision: 2.2.2.1.(2)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada [specifically NBC Articles 3.1.8.4. to 3.1.8.17. and Subsections 3.1.9. and 3.2.8.] to existing buildings, in regard to the design and installation of closures in fire separations.

Provision: 2.2.2.2.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that closures will not perform as originally intended in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to damage to the building on the other side of the separation.

Intent 2. To direct Code users to Article 2.2.2.1. for requirements regarding the maintenance of closures.

Objective

OS1

Attributions

[F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that closures will not perform as originally intended in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to harm to persons on the other side of the separation.

Intent 2. To direct Code users to Article 2.2.2.1. for requirements regarding the maintenance of closures.

Provision: 2.2.2.3.(1)

Objective

OP1

Attributions

[F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that mechanical components of doors [e.g. closures] will be damaged, which could lead to their improper operation in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to damage to the building.

Intent 2. To limit the probability that protective guarding devices will interfere with the proper operation of doors in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to damage to the building.

Objective

OS1

Attributions

[F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that mechanical components of doors [e.g. closures] will be damaged, which could lead to their improper operation in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to harm to persons on the other side of the separation.

Intent 2. To limit the probability that protective guarding devices will interfere with the proper operation of doors in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to harm to persons on the other side of the separation.

Provision: 2.2.2.4.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that closures will not operate as originally intended in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to damage to the building on the other side of the separation.

Objective

OS1

Attributions

[F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that closures will not operate as originally intended in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to harm to persons on the other side of the separation.

Provision: 2.2.2.4.(2)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that doors will not be properly closed in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to damage to the building on the other side of the separation.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that doors will not be properly closed in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to harm to persons on the other side of the separation.

Provision: 2.2.2.4.(3)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that doors will not operate as originally intended in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to damage to the building on the other side of the separation.

Intent 2. To direct Code users to Sentence 2.2.2.4.(1) and Section 2.8. for requirements regarding the maintenance of doors.

Objective

OS1

Attributions

[F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that doors will not operate as originally intended in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to harm to persons on the other side of the separation.

Intent 2. To direct Code users to Sentence 2.2.2.4.(1) and Section 2.8. for requirements regarding the maintenance of doors.

Provision: 2.2.2.4.(4)

Objective

OP1

Attributions

[F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that closures will not operate properly in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to damage to the building on the other side of the separation.

Objective

OS1

Attributions

[F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that closures will not operate properly in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to harm to persons on the other side of the separation.

Provision: 2.2.2.4.(5)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire dampers and fire stop flaps will not operate as originally intended in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to damage to the building on the other side of the separation.

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that fire dampers and fire stop flaps will not operate as originally intended in a fire situation, which could lead to the spread of fire from one side of a fire separation to the other side of the separation, which could lead to harm to persons on the other side of the separation.

Provision: 2.3.1.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings, in regard to interior finish material that forms part of the interior surface of floors, walls, partitions or ceilings.

Provision: 2.3.1.2.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that movable partitions or screens that have an inappropriately high flame-spread property will be used, which could lead to the spread of fire across the exposed surfaces of the partitions or screens, which could lead to harm to persons.

Provision: 2.3.1.3.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that wall or ceiling decorative materials that have an inappropriately high flame-spread property will be used, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to harm to persons.

Provision: 2.3.1.4.(1)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving combustible material in the interconnected floor spaces will not be controlled or suppressed by sprinklers, which could lead to the spread of the fire to other parts of the building, which could lead to damage to the building.

Intent 2. To direct Code users to the National Building Code of Canada, in regard to limits on combustible contents in interconnected floor spaces.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving combustible material in the interconnected floor spaces will not be controlled or suppressed by sprinklers, which could lead to the spread of the fire to other parts of the building, which could lead to harm to persons.

Intent 2. To direct Code users to the National Building Code of Canada, in regard to limits on combustible contents in interconnected floor spaces.

Provision: 2.3.2.1.(1)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that materials having an inappropriately high flammability property will be used, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that materials having an inappropriately high flammability property will be used, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to:

- harm to persons, and
- delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.3.2.2.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that the flame retardant treatment will no longer be effective, which could lead an inappropriately high flammability property of materials to ignite, which could lead to a fire, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that the flame retardant treatment will no longer be effective, which could lead to an inappropriately high flammability property of materials, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to:

- harm to persons, and
- delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.3.2.3.(1)

Objective

OP1

Attributions

[F02-OP1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that materials having an inappropriately high flammability property will be used, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that materials having an inappropriately high flammability property will be used, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to harm to persons.

Provision: 2.3.2.3.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that mattresses and mattress sets having an inappropriately high flammability property will be used, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that mattresses and mattress sets having an inappropriately high flammability property will be used, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to damage to the building.

Provision: 2.3.2.3.(3)

Intent(s)

Intent 1. To exempt certain mattresses, bed linens, window drapes and cubicle curtains from having to meet the flammability performance criteria required in Sentence 2.3.2.3.(1) in certain care occupancies.

Provision: 2.4.1.1.(1)

Objective

OS1

Attributions

[F01, F02-OS1.2, OS1.1]

Intent(s)

Intent 1. To limit the probability that combustible waste materials located outside a building will be ignited, which could lead to a fire, which could lead to the spread of fire to the building, which could lead to harm to persons.

Intent 2. To limit the probability that combustible waste materials located inside a building will be ignited, which could lead to a fire or the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F02-OP1.2, OP1.1]

Intent(s)

Intent 1. To limit the probability that combustible waste materials located outside a building will be ignited, which could lead to a fire, which could lead to the spread of fire to the building, which could lead to damage to the building.

Intent 2. To limit the probability that combustible waste materials located inside a building will be ignited, which could lead to a fire or the spread of fire, which could lead to damage to the building.

Provision: 2.4.1.1.(2)

Objective

OS1

Attributions

[F01, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials will be ignited, which could lead to a fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials will be ignited, which could lead to a fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent Statements: NFC 2010

Provision: 2.4.1.1.(3)

Objective

OS1

Attributions

[F01, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials will be ignited, which could lead to a fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials will be ignited, which could lead to a fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 2.4.1.1.(4)

Objective

OS1

Attributions

[F01, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials located on a roof or adjacent to a building will be ignited, which could lead to a fire, which could lead to the spread of fire to the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials located on a roof or adjacent to a building will be ignited, which could lead to a fire, which could lead to the spread of fire to the building, which could lead to damage to the building.

Provision: 2.4.1.1.(5)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that abandoned optical fibre cables and electrical wire and cables with combustible insulation, jackets, or sheathes, and nonmetallic raceways located in plenums will be ignited in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that abandoned optical fibre cables and electrical wire and cables with combustible insulation, jackets, or sheathes, and nonmetallic raceways located in plenums will be ignited in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 2.4.1.1.(6)

Objective

OS1

Attributions

[F01-OS1.2, OS1.1]

Intent(s)

Intent 1. To limit the probability that combustible waste materials located outside a building will be ignited, which could lead to a fire, which could lead to the spread of fire to surrounding buildings, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F02-OP1.2, OP1.1]

Intent(s)

Intent 1. To limit the probability that combustible waste materials located outside a building will be ignited, which could lead to a fire, which could lead to the spread of fire to surrounding buildings, which could lead to damage to the buildings.

Provision: 2.4.1.2.(1)

Objective

OS1

Attributions

[F03, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to other parts of the building, which could lead to harm to persons.

Intent Statements: NFC 2010

Intent 2. To require the upgrading of rooms [fire separation and sprinkler protection] in existing buildings to the standards for new buildings in the National Building Code of Canada, more specifically in NBC Sentence 3.6.2.5.(1).

Objective

OP1

Attributions

[F03, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to other parts of the building, which could lead to damage to the building.

Intent 2. To require the upgrading of rooms [fire separation and sprinkler protection] in existing buildings to the standards for new buildings in the National Building Code of Canada, more specifically in NBC Sentence 3.6.2.5.(1).

Provision: 2.4.1.3.(1)

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "... be removed from the premises."

Intent(s)

Intent 1. To limit the probability that greasy or oily rags, or other materials subject to spontaneous ignition, will ignite, which could lead to ignition of adjacent combustible materials, which could lead to a fire, which could lead to harm to persons.

Intent(s)

Intent 1. To state the application of Sentence 2.4.1.3.(4).

Provision: 2.4.1.3.(2)

Objective

OS1

Attributions

[F01-OS1.1] Applies to the storage of combustible materials and ashes in the same container.

Intent(s)

Intent 1. To limit the probability that hot ashes will ignite combustible materials, which could lead to a fire, which could lead to harm to persons.

Intent(s)

Intent 1. To state the application of Sentence 2.4.1.3.(4).

Provision: 2.4.1.3.(3)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire in the receptacle will spread to nearby combustible materials, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire in the receptacle will spread to nearby combustible materials, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 2.4.1.3.(4)

Objective

OS1

Attributions

[F03, F02, F01-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the receptacle will spread to nearby combustible materials [e.g. combustible flooring], which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that fire involving the materials in the receptacle will spread to the receptacle, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 3. To limit the probability that nearby ignition sources will ignite materials stored in the receptacles, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F03, F02, F01-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the receptacle will spread to nearby combustible materials [e.g. combustible flooring], which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent Statements: NFC 2010

Intent 2. To limit the probability that fire involving the materials in the receptacle will spread to the receptacle, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 3. To limit the probability that nearby ignition sources will ignite materials stored in the receptacles, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 2.4.1.4.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that lint in the lint traps will be ignited, which could lead to a fire, which could lead to harm to persons.

Provision: 2.4.2.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that smoking material will lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.4.2.1.(2)

Intent(s)

Intent 1. To state the application of Sentence 2.4.2.2.(1).

Provision: 2.4.2.1.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that discarded smoking material will ignite adjacent combustible materials, which could lead to a fire, which could lead to harm to persons.

Provision: 2.4.2.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the information on the signs will not be legible, which could lead to the instructions on the sign not being read or understood, which could lead to persons smoking in an area where smoking is prohibited [e.g. areas where conditions are such as to make smoking a fire or explosion hazard], which could lead to the smoking material causing a fire or explosion, which could lead to harm to persons.

Provision: 2.4.3.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that open flames will ignite combustible materials, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.4.3.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that flaming meals or drinks will ignite combustible materials, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.4.3.2.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that flaming meals or drinks will ignite combustible materials while being brought from the place where the flaming meals or drinks are ignited to their location of serving, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 2.4.3.2.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that refuelling operations will create a fire hazard in the serving area, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that fuel will be ignited by nearby ignition sources during equipment refuelling operations, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.4.3.2.(4)

Objective

OS1

Attributions

[F12, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To supersede the general provisions regarding the rating of portable extinguishers stated in Article 2.1.5.1. and Sentence 6.2.1.1.(1).

Objective

OP1

Attributions

[F12, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent 2. To supersede the general provisions regarding the rating of portable extinguishers stated in Article 2.1.5.1. and Sentence 6.2.1.1.(1).

Provision: 2.4.3.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that devices having open flames [ignition sources] will ignite nearby combustible material, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.4.4.1.(1)

Intent(s)

Intent 1. To direct Code users to Part 4.

Provision: 2.4.4.1.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours from Class I liquids will accumulate and subsequently be ignited by a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.4.4.1.(3)

Intent(s)

Intent 1. To direct Code users to Article 4.1.6.3. for the removal of combustible or flammable liquid spills.

Provision: 2.4.4.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the gases will be released from the balloons, which could lead to the accumulation and subsequent ignition of the gases by a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.4.5.1.(1)

Objective

OP1

Attributions

[F01, F03, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that outdoor open air fires will ignite nearby combustible material, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent 2. To waive the prohibition to set open air fires if:

- fires are continuously attended and are confined to small receptacles that will prevent the spread of fire, or

Intent Statements: NFC 2010

- measures are taken to limit the spread of fire, such as a combination of ensuring adequate clearances to buildings or facilities and combustibles, limiting the size of the fire, and providing means of extinguishing and controlling the fire.

Objective

OS1

Attributions

[F01, F03, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that outdoor open air fires will ignite nearby combustible material, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To waive the prohibition to set open air fires if:

- fires are continuously attended and are confined to small receptacles that will prevent the spread of fire, or
- measures are taken to limit the spread of fire, such as a combination of ensuring adequate clearances to buildings and combustibles, limiting the size of the fire, and providing means of extinguishing and controlling the fire.

Provision: 2.4.6.1.(1)

Objective

OS1

Attributions

[F34-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will enter a vacant building and cause a fire [accidental or intentional], which could lead to:

- harm to persons, and
- the spread of fire to an adjacent building, which could lead to harm to persons in the adjacent building.

Objective

OP3

Attributions

[F34-OP3.1]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will enter a vacant building and cause a fire [accidental or intentional], which could lead to the spread of fire to adjacent buildings, which could lead to damage to adjacent buildings or facilities.

Provision: 2.4.7.1.(1)

Objective

OS1

Attributions

[F01, F82, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that electrical installations will cause a fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F82, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that electrical installations will cause a fire, which could lead to damage to the building.

Provision: 2.5.1.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings, in regard to access for fire department vehicles.

Provision: 2.5.1.2.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 2.5.1.3.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 2.5.1.4.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in gaining access to fire department connections, which could lead to inadequate water supply to sprinkler or standpipe systems, which could lead to the inability of such systems to control or suppress a fire, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in gaining access to fire department connections, which could lead to inadequate water supply to sprinkler or standpipe systems, which could lead to the inability of such systems to control or suppress a fire, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 2.5.1.5.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or ineffective, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or ineffective, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Provision: 2.5.1.5.(2)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or ineffective, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or ineffective, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Provision: 2.6.1.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings, in regard to the installation of heating, ventilating and air-conditioning appliances and equipment.

Provision: 2.6.1.2.(1)

Objective

OP1

Attributions

[F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that appliances will ignite coal and wood stored in nearby bins, which could lead to a fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that appliances will ignite coal and wood stored in nearby bins, which could lead to a fire, which could lead to harm to persons.

Provision: 2.6.1.3.(1)

Objective

OP1

Attributions

[F01, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability of accumulation of combustible deposits in hoods, ducts and filters, which could lead to the ignition of the deposits and spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F01, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability of accumulation of combustible deposits in hoods, ducts and filters, which could lead to the ignition of the deposits and spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 2.6.1.4.(1)

Objective

OP1

Attributions

[F01-OP1.2] [F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that accumulation of combustible deposits in a chimney, flue or flue pipe will go unnoticed, which could lead to a fire in the chimney, flue, or flue pipe, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that dangerous conditions [e.g. excessive corrosion, deposits, damage, etc.] will go unnoticed, which could lead to malfunction of the appliance the chimney, flue or flue pipes serves or ignition of adjacent combustible materials, which could lead to fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F01-OS1.2] [F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that accumulation of combustible deposits in a chimney, flue or flue pipe will go unnoticed, which could lead to a fire in the chimney, flue, or flue pipe, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that dangerous conditions [e.g. excessive corrosion, deposits, damage, etc.] will go unnoticed, which could lead to malfunction of the appliance the chimney, flue or flue pipes serves or ignition of adjacent combustible materials, which could lead to fire, which could lead to harm to persons.

Provision: 2.6.1.4.(2)

Objective

OP1

Attributions

[F01-OP1.2]

Intent(s)

Intent 1. To limit the probability that combustible deposits will accumulate in a chimney, flue and flue pipe, which could lead to a fire in the chimney, flue, or flue pipe, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F01-OS1.2]

Intent(s)

Intent 1. To limit the probability that combustible deposits will accumulate in a chimney, flue and flue pipe, which could lead to a fire in the chimney, flue, or flue pipe, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 2.6.1.4.(3)

Objective

OP1

Attributions

[F82-OP1.2, OP1.1]

Intent(s)

Intent 1. To limit the probability that defects or openings in chimneys, flues or flue pipes will lead to:

- heat from normal operation or from a fire in the chimneys, flues and flue pipes igniting nearby combustible materials, which could lead to a fire or the spread of fire, or
- failure, which could lead to the spread of fire or smoke from chimneys, flues or flue pipes to other parts of the building.

This is to limit the probability of damage to the building.

Objective

OS1

Attributions

[F82-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that defects or openings in chimneys, flues or flue pipes will lead to:

Intent Statements: NFC 2010

- heat from normal operation or from a fire in the chimneys, flues and flue pipes igniting nearby combustible materials, which could lead to a fire or to the spread of fire, or
- failure, which could lead to the spread of fire or smoke from chimneys, flues or flue pipes to other parts of the building.

This is to limit the probability of harm to persons.

Objective

OS3

Attributions

[F82-OS3.4]

Intent(s)

Intent 1. To limit the probability that structural deficiency or decay of chimneys, flues and flue pipes or abandoned or unused openings will lead to the spread of products of combustion from normal operation to other parts of the building, which could lead to harm to persons.

Objective

OS3

Attributions

2.6.1.4.(3)(a) [F82-OS3.1] Applies to portion of Code text: "... any structural deficiency or decay ..."

Intent(s)

Intent 1. To limit the probability that structural deficiency or decay of chimneys, flues and flue pipes will lead to their structural failure and collapse, which could lead to harm to persons.

Provision: 2.6.1.5.(1)

Objective

OP1

Attributions

[F01-OP1.2, OP1.1]

Intent(s)

Intent 1. To limit the probability that heat from normal operation or from a fire in chimneys, flue pipes or appliances will lead to the ignition of nearby combustible construction material, which could lead to a fire or to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To direct Code users to the National Building Code of Canada with regard to clearances between chimneys, flue pipes or appliances and combustible construction.

Objective

OS1

Attributions

[F01-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that heat from normal operation or from a fire in chimneys, flue pipes or appliances will lead to the ignition of nearby combustible construction material, which could lead to a fire or to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To direct Code users to the National Building Code of Canada with regard to clearances between chimneys, flue pipes or appliances and combustible construction.

Provision: 2.6.1.5.(2)

Objective

OP1

Attributions

[F01-OP1.2, OP1.1]

Intent(s)

Intent 1. To limit the probability that heat from normal operation or from a fire in chimneys, flue pipes or appliances will lead to ignition of nearby combustible material, which could lead to a fire or to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that close proximity of combustible material to ash pit or cleanout doors will lead to ignition of the combustible material, which could lead to a fire or to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F01-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that heat from normal operation or from a fire in chimneys, flue pipes or appliances will lead to ignition of nearby combustible material, which could lead to a fire or to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that close proximity of combustible material to ash pit or cleanout doors will lead to ignition of the combustible material, which could lead to a fire or to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 2.6.1.6.(1)

Objective

OP1

Attributions

[F01, F81, F82-OP1.2, OP1.1]

Intent(s)

Intent 1. To limit the probability that heating, ventilating and air conditioning systems, including appliances, chimneys and flue pipes, will not operate as originally intended, which could lead to a fire or to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS3

Attributions

[F81, F82-OS3.4]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that heating, ventilating and air conditioning systems, including appliances, chimneys and flue pipes, will not operate as originally intended, which could lead to hazardous conditions [heat, toxic gases, etc.], which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F81, F82-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that heating, ventilating and air conditioning systems, including appliances, chimneys and flue pipes, will not operate as originally intended, which could lead to a fire or to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 2.6.1.6.(2)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in the switches will go unnoticed, which could lead to the switches not operating as originally intended, which could lead to the inability of the mechanical air-conditioning and ventilating systems to be shut down in a fire situation involving the systems, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in the switches will go unnoticed, which could lead to the switches not operating as originally intended, which could lead to the inability of the mechanical air-conditioning and ventilating systems to be shut down in a fire situation involving the systems, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 2.6.1.7.(1)

Objective

OP1

Attributions

[F01, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that ventilation shafts will be used for a purpose that would introduce fire hazards into the shaft, or impede or prevent their use in a fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F01, F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that ventilation shafts will be used for a purpose that would introduce fire hazards into the shaft, or impede or prevent their use in a fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 2.6.1.8.(1)

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that sparks, heat or fire from hot works will spread to other parts of the building through the ductwork, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F03-OS1.2] [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that heat, sparks or flames from heat-producing devices will ignite combustible material [e.g. dusts, deposits, lint or other combustible material in the duct], which could lead to a fire, which could lead to harm to persons.

Intent 2. To limit the probability that sparks, heat or fire from hot works will spread to other parts of the building through the ductwork, which could lead to harm to persons.

Provision: 2.6.1.8.(2)

Objective

OS1

Attributions

[F81, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that damage to fuel supply piping or equipment will lead to the unwanted release of fuel, which could lead to the accumulation and subsequent ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F81, F43-OH5]

Intent(s)

Intent 1. To limit the probability that damage to fuel supply piping or equipment will lead to the unwanted release of fuel, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that damage to fuel supply piping or equipment will lead to the unwanted release of fuel, which could lead to the accumulation and subsequent ignition of vapour, which could lead to a fire or explosion, which could lead to damage to the building.

Provision: 2.6.1.9.(1)

Objective

OS1

Attributions

[F01-OS1.1, OS1.2] [F02, F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that cooking vapours or residue will accumulate and subsequently be ignited, which could lead to a fire or explosion, which could lead to:

- harm to persons, and
- the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that commercial cooking equipment exhaust will ignite nearby combustible material, which could lead to a fire, which could lead to harm to persons.

Intent 3. To limit the probability that fire protection systems for commercial cooking equipment exhaust will not properly operate in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 4. To require upgrading of commercial cooking equipment exhaust and fire protection systems in existing buildings to the standards for new buildings in the National Building Code of Canada.

Objective

OP1

Attributions

[F02, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that cooking vapours or residue will accumulate and subsequently be ignited, which could lead to a fire or explosion, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that fire protection systems for commercial cooking equipment exhaust will not properly operate in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 3. To require upgrading of commercial cooking equipment exhaust and fire protection systems in existing buildings to the standards for new buildings in the National Building Code of Canada.

Provision: 2.6.1.9.(2)

Objective

OS1

Attributions

[F01-OS1.2, OS1.1] [F81, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that cooking vapours or residue will accumulate and subsequently be ignited, which could lead to a fire or explosion, which could lead to:

- harm to persons, and
- the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that commercial cooking equipment exhaust will ignite nearby combustible material, which could lead to a fire, which could lead to harm to persons.

Intent 3. To limit the probability that fire protection systems for commercial cooking equipment exhaust will not properly operate in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F81, F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that cooking vapours or residue will accumulate and subsequently be ignited, which could lead to a fire or explosion, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that fire protection systems for commercial cooking equipment exhaust will not properly operate in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 2.6.1.9.(3)

Objective

OS1

Attributions

[F82-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that grease or residues from commercial cooking equipment exhaust systems will accumulate on the blades of the exhaust fan, which could lead to its misalignment or improper operation, which could lead to the generation of sparks or heat and the ignition of combustible

Intent Statements: NFC 2010

residues or explosive vapours or mists, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that grease or residues from commercial cooking equipment exhaust systems will accumulate inside the exhaust ductwork, which could lead to the obstruction of the ventilation system and the reduction of its exhaust capacity, which could lead to an explosive atmosphere, which, in the presence of a source of ignition, could lead to an explosion, which could lead to harm to persons.

Intent 3. To limit the probability that grease or residues from commercial cooking equipment exhaust systems will accumulate inside the exhaust ductwork, which could lead to an increase in the combustible content [and fire severity], which could lead to the spread of fire in the ductwork to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that grease or residues from commercial cooking equipment exhaust systems will accumulate inside the exhaust ductwork, which could lead to an increase in the combustible content [and fire severity], which could lead to the spread of fire in the ductwork to other parts of the building, which could lead to damage to the building.

Provision: 2.6.1.9.(4)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours will accumulate and subsequently be ignited, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.6.1.9.(5)

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with the operation of manually operated fire protection systems, which could lead to delays or improper operation of such systems in a fire situation, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with the operation of manually operated fire protection systems, which could lead to delays or improper operation of such systems in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Provision: 2.6.1.9.(6)

Objective

OS1

Attributions

[F01, F81, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability of improper installation [clearances to combustible materials, electrical or fuel supply connections, etc.] or maintenance [accumulation of grease or residues, etc.] of commercial cooking equipment, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.6.1.9.(7)

Objective

OS1

Attributions

[F01, F81, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability of improper installation [clearances to combustible materials, electrical or fuel supply connections, etc.] or maintenance [accumulation of grease or residues, etc.] of commercial cooking equipment, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.6.2.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings, in regard to the installation and alteration of indoor incinerators.

Provision: 2.6.2.2.(1)

Objective

OS1

Attributions

[F03-OS1.2] Applies to portion of Code text: "... except that the *flue* venting an incinerator shall not serve as the chute conveying waste material to the incinerator."

Intent Statements: NFC 2010

Intent(s)

Intent 1. To override the requirements of NFPA 82 in order to limit the probability that fire will spread outside of the incinerator and through the waste chute, which could lead to the ignition of nearby combustible materials, which could lead to harm to persons.

Objective

OS1

Attributions

[F03-OS1.2] [F82, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fire [normal operation or uncontrolled fire condition] in the incinerator will spread outside of the incinerator and ignite nearby combustible materials, which could lead to harm to persons.

Intent 2. To limit the probability that outdoor incinerators will not operate as originally intended, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.6.2.3.(1)

Objective

OS1

Attributions

[F81, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the incinerator spark arresters will become obstructed, which could lead to improper operation of the incinerator, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that damage to the incinerator will go unnoticed [e.g. burnt-out arrestor with large holes], which could lead to the unwanted release of sparks, which could lead to ignition of adjacent combustible materials, which could lead to a fire outside the incinerator, which could lead to harm to persons.

Provision: 2.6.2.3.(2)

Objective

OS1

Attributions

[F82, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of unwanted release of sparks, which could lead to ignition of adjacent combustible materials, which could lead to a fire outside the incinerator, which could lead to harm to persons.

Provision: 2.6.3.1.(1)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that an excessive fire load will accumulate in an electrical equipment vault, which could lead to a fire involving the electrical equipment vault to spread to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that a fire involving stored items in an electrical equipment vault will spread to the electrical equipment, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2] [F01-OS1.4, OS1.5]

Intent(s)

Intent 1. To limit the probability that an excessive fire load will accumulate in an electrical equipment vault, which could lead to a fire involving the electrical equipment vault to spread to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that a fire involving stored items in an electrical equipment vault will spread to the electrical equipment, which could lead to failure of the electrical equipment, which could lead to failure of building electrical systems [e.g. normal lighting, heating, ventilating, air-conditioning, and elevator systems], which could lead to unsafe conditions, which could lead to harm to persons.

Provision: 2.6.3.2.(1)

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will enter an electrical equipment vault, which could lead to improper use or operation of the equipment, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS3

Attributions

[F34-OS3.3]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will enter an electrical equipment vault, which could lead to their coming into contact with live electrical equipment, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F34-OP1.1]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will enter an electrical equipment vault, which could lead to improper use or operation of the equipment, which could lead to a fire or explosion, which could lead to damage to the building.

Provision: 2.7.1.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings, in regard to means of egress.

Provision: 2.7.1.2.(1)

Intent(s)

Intent 1. To state the application of Sentences 2.7.1.2.(2) to 2.7.1.2.(4).

Provision: 2.7.1.2.(2)

Objective

OS3

Attributions

[F10, F05-OS3.7]

Intent(s)

Intent 1. To limit the probability of delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Intent 2. To limit the probability that persons will be prevented or delayed in accessing one egress doorway should the other become inaccessible in an emergency situation, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.7.1.2.(3)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. To limit the probability that delays will occur in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Provision: 2.7.1.2.(4)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. To limit the probability of delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Provision: 2.7.1.3.(1)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. To limit the probability that a room will contain too many occupants, which could lead to:

- overcrowding, or
- insufficient capacity of the means of egress.

This is to limit the probability of delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Provision: 2.7.1.3.(2)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. To limit the probability that a room will contain too many occupants, which could lead to:

- overcrowding, or
- insufficient capacity of the means of egress.

This is to limit the probability of delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Provision: 2.7.1.4.(1)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with the maximum number of persons permitted in a room, which could lead to:

Intent Statements: NFC 2010

- overcrowding, or
- insufficient capacity of the means of egress.

This is to limit the probability of delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Provision: 2.7.1.4.(2)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with the maximum number of persons permitted in a floor area, which could lead to:

- overcrowding, or
- insufficient capacity of the means of egress.

This is to limit the probability of delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Provision: 2.7.1.4.(3)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. To limit the probability that signs indicating the maximum number of people permitted will not be legible or recognized, which could lead to:

- overcrowding, or
- insufficient capacity of the means of egress.

This is to limit the probability of delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Provision: 2.7.1.5.(1)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. [Clauses (a) to (e)] To limit the probability of delays in the evacuation or movement of persons to a safe place in an emergency, which could lead to harm to persons.

Intent 2. [Clause (f)] To limit the probability that loose chairs will be pushed out of alignment in an emergency, which could lead to blockage of aisles or space between rows of seats, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 2.7.1.5.(2)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. To supersede the requirements of Clauses 2.7.1.5.(1)(b) and 2.7.1.5.(1)(c) regarding the number of seats in a row and the width of aisles.

This is to limit the probability of delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Provision: 2.7.1.5.(3)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. To supersede the requirements of Clause 2.7.1.5.(1)(a) regarding the minimum width of aisles between rows of seats if alignment of seats is assured by the tables.

This is to limit the probability of delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Intent 2. To waive the requirements of Clause 2.7.1.5.(1)(b) regarding fastening of seats if alignment of seats is assured by the tables.

Provision: 2.7.1.6.(1)

Objective

OP1

Attributions

[F12, F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will be delayed or ineffective in carrying out their emergency response operations in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will be delayed or ineffective in carrying out their emergency response operations in a fire situation, which could lead to the spread of fire, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OS3

Attributions

[F10, F12, F82-OS3.7]

Intent(s)

Intent 1. To limit the probability that delays will occur in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Intent 2. To limit the probability that emergency responders will be delayed or ineffective in carrying out their emergency response operations, which could lead to harm to persons.

Provision: 2.7.1.7.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will be delayed or ineffective in carrying out their emergency response operations in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will be delayed or ineffective in carrying out their emergency response operations in a fire situation, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OS3

Attributions

[F10, F12-OS3.7] [F30-OS3.1]

Intent(s)

Intent 1. To limit the probability that delays will occur in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Intent 2. To limit the probability that emergency responders will be delayed or ineffective in carrying out their emergency response operations, which could lead to harm to persons.

Intent 3. To limit the probability that exterior passageways and exit stairs will be obstructed or slippery, which could lead to persons tripping, slipping or falling, which could lead to harm to persons.

Provision: 2.7.1.7.(2)

Objective

OS1

Attributions

[F82, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will be delayed or ineffective in carrying out their emergency response operations in a fire situation, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F82, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will be delayed or ineffective in carrying out their emergency response operations in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS3

Attributions

[F82, F10, F12-OS3.7] [F82, F30-OS3.1]

Intent(s)

Intent 1. To limit the probability that delays will occur in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Intent 2. To limit the probability that emergency responders will be delayed or ineffective in carrying out their emergency response operations, which could lead to harm to persons.

Intent 3. To limit the probability that exterior passageways and exit stairs will be obstructed or slippery, which could lead to persons tripping, slipping or falling, which could lead to harm to persons.

Provision: 2.7.2.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that doors will not operate properly in a fire situation, which could lead to emergency responders being delayed or ineffective in carrying out their emergency response operations, which could lead to the spread of fire, which could lead to damage to the building.

Intent Statements: NFC 2010

Objective

OS3

Attributions

[F82-OS3.7]

Intent(s)

Intent 1. To limit the probability that doors will not operate properly in an emergency situation, which could lead to

- delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons, and
- emergency responders being delayed or ineffective in carrying out their emergency response operations, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Objective

OS1

Attributions

[F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that doors will not operate properly in a fire situation, which could lead to emergency responders being delayed or ineffective in carrying out their emergency response operations, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 2.7.2.1.(2)

Objective

OS3

Attributions

[F82-OS3.7]

Intent(s)

Intent 1. To exempt revolving doors from the once a month testing requirements of Sentence 2.7.2.1.(1) on the basis that:

- these doors are generally frequently used [as main entrances and in primary egress routes] and a deficiency would be expected to be readily corrected, and
- a yearly check is required.

This [the yearly check] is to limit the probability that the doors will not operate properly in an emergency situation, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.7.2.1.(3)

Objective

OS3

Attributions

[F82-OS3.7]

Intent(s)

Intent 1. To exempt sliding doors from the requirements for monthly testing of Sentence 2.7.2.1.(1) on the basis that a yearly check is deemed adequate.

This [yearly check] is to limit the probability that the doors will not operate properly in an emergency situation, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.7.2.1.(4)

Objective

OS3

Attributions

[F82-OS3.7]

Intent(s)

Intent 1. To exempt doors equipped with electromagnetic locks from the requirements for monthly testing of Sentence 2.7.2.1.(1) on the basis that a yearly check is deemed adequate. This [yearly check] is to limit the probability that the doors will not operate properly in an emergency situation, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.7.2.2.(1)

Intent(s)

Intent 1. To state the application of Article 2.2.1.2..

Provision: 2.7.3.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings, in regard to the design and installation of exit lighting, exit signs and emergency lighting.

Provision: 2.7.3.1.(2)

Objective

OS3

Attributions

[F10-OS3.7]

Intent(s)

Intent 1. To limit the probability that exit locations will not be readily identified, which could lead to delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Intent 2. To limit the probability that exit routes will not be visible, which could lead to delays in evacuation or movement to a safe place in an emergency, which could lead to harm to persons.

Provision: 2.7.3.1.(3)

Intent(s)

Intent Statements: NFC 2010

Intent 1. To direct Code users to Section 6.5.

Provision: 2.8.1.1.(1)

Attributions

2.8.1.1.(1)(a), 2.8.1.1.(1)(b), 2.8.1.1.(1)(c), 2.8.1.1.(1)(d), 2.8.1.1.(1)(e), 2.8.1.1.(1)(f)

Intent(s)

Intent 1. To state the application of Section 2.8.

Provision: 2.8.1.2.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that supervisory staff will be unaware of the procedures to follow in a fire emergency, which could lead to inappropriate actions being taken, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that supervisory staff will be unaware of the procedures to follow in a fire emergency, which could lead to inappropriate actions being taken, which could lead to harm to persons.

Provision: 2.8.1.3.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that supervisory staff will be delayed in operating fire alarm systems or providing access to fire protection systems or equipment in a fire situation, which could lead to delays or ineffectiveness in carrying out emergency response operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability that supervisory staff will be delayed in operating fire alarm systems or providing access to fire protection systems or equipment in a fire situation, which could lead to:

- delays in evacuation or movement to a safe place, which could lead to harm to persons, and
- delays or ineffectiveness in carrying out firefighting operations, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 2.8.2.1.(1)

Objective

OP1

Attributions

- 2.8.2.1.(1)(a)(i) [F12, F13-OP1.2]
- 2.8.2.1.(1)(a)(ii) [F13-OP1.2]
- 2.8.2.1.(1)(a)(iii) [F11-OP1.2]
- 2.8.2.1.(1)(a)(v) [F02-OP1.2]
- 2.8.2.1.(1)(b) to 2.8.2.1.(1)(d) [F12-OP1.2]
- 2.8.2.1.(1)(f) [F01-OP1.1]
- 2.8.2.1.(1)(g) [F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that:

- emergency responders will not be notified of a fire emergency,
- emergency responders will be delayed in carrying out their duties,
- designated supervisory staff will not be appointed and organized to respond to fire emergencies, and
- instructions, including schematic diagrams, describing the type, location and operation of building fire emergency systems will not be established.

This is to limit the probability of delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire, which could lead to damage to the building.

Intent 2. To limit the probability that:

- fire hazards will not be controlled, and
- building facilities, systems, equipment and devices will not be properly inspected or maintained.

This is to limit the probability of fire or the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

- 2.8.2.1.(1)(a)(i) [F11, F13-OS1.5]
- 2.8.2.1.(1)(a)(ii) [F13-OS1.5, OS1.2]
- 2.8.2.1.(1)(a)(iii) [F11-OS1.2, OS1.5]
- 2.8.2.1.(1)(a)(iv) [F10-OS1.5]
- 2.8.2.1.(1)(a)(v) [F02-OS1.2]
- 2.8.2.1.(1)(b) to 2.8.2.1.(1)(d) [F12-OS1.2, OS1.5]
- 2.8.2.1.(1)(e) [F10, F12-OS1.5]
- 2.8.2.1.(1)(f) [F01-OS1.1]
- 2.8.2.1.(1)(g) [F82-OS1.2, OS1.5]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that:

- persons and emergency responders will not be notified of a fire emergency,
- emergency responders will be delayed in carrying out their duties,
- designated supervisory staff will not be appointed and organized to respond to fire emergencies,
- occupants will not practise evacuation procedures, and
- instructions, including schematic diagrams, describing the type, location and operation of building fire emergency systems will not be established.

This is to limit the probability of delays or ineffectiveness in conducting firefighting operations, evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that:

- fire hazards will not be controlled, and
- building facilities, systems, equipment and devices will not be properly inspected or maintained.

This is to limit the probability of fire or the spread of fire, which could lead to harm to persons.

Provision: 2.8.2.1.(2)

Objective

OP1

Attributions

[F13, F12-OP1.2] [F01, F82-OP1.1] [F02, F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that changes in use or characteristics of the building will not be reflected in procedures to address a fire emergency, which could lead to inappropriate actions.

This is to limit the probability that

- emergency responders will not be notified of a fire emergency,
- emergency responders will be delayed in carrying out their duties,
- designated supervisory staff will not be appointed and organized to respond to fire emergencies, and
- instructions, including schematic diagrams, describing the type, location and operation of building fire emergency systems will not be established.

This is to limit the probability of delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire, which could lead to damage to the building.

This is to limit the probability that

- fire hazards will not be controlled, and
- building facilities, systems, equipment and devices will not be properly inspected or maintained.

This is to limit the probability of fire or the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F11, F13, F12, F10-OS1.5, OS1.2] [F01, F82-OS1.1] [F02, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that changes in use or characteristics of the building will not be reflected in procedures to address a fire emergency, which could lead to inappropriate actions.

This is to limit the probability that

- persons and emergency responders will not be notified of a fire emergency,
- emergency responders will be delayed in carrying out their duties,
- designated supervisory staff will not be appointed and organized to respond to fire emergencies,
- occupants will not practise evacuation procedures, and
- instructions, including schematic diagrams, describing the type, location and operation of building fire emergency systems will not be established.

This is to limit the probability of delays or ineffectiveness in conducting firefighting operations, evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders.

This is to limit the probability that

- fire hazards will not be controlled, and
- building facilities, systems, equipment and devices will not be properly inspected or maintained.

This is to limit the probability of fire or the spread of fire, which could lead to harm to persons.

Provision: 2.8.2.2.(1)**Objective**

OS1

Attributions

[F12-OS1.5, OS1.2] [F01-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that supervisory staff will be delayed in carrying out emergency procedures in a fire situation, which could lead to delays in the notification of persons or emergency responders, which could lead to delays or ineffectiveness in conducting firefighting operations, evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that fire hazards will not be controlled, which could lead to fire or the spread of fire, which could lead to harm to persons.

Provision: 2.8.2.3.(1)**Objective**

OS1

Attributions

[F12-OS1.5, OS1.2] [F01-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that supervisory staff will be delayed in carrying out emergency procedures in a fire situation, which could lead to delays in the notification of persons or emergency responders, which could lead to delays or ineffectiveness in conducting firefighting operations, evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that fire hazards will not be controlled, which could lead to fire or the spread of fire, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 2.8.2.4.(1)

Objective

OP1

Attributions

[F02, F12, F13-OP1.2]

Intent(s)

Intent 1. To limit the probability that special requirements pertaining to fire safety in high buildings will be omitted from fire safety plans, which could lead to:

- inappropriate and misleading messages being given over the voice communication system,
- inappropriate use of elevators, which could lead to persons being trapped in an elevator or being delivered to the fire floor,
- inappropriate use and operation of smoke control or fire emergency systems, which could lead to an increased hazard to occupants, and
- difficulty for firefighters in accessing the building and reaching the fire location.

This is to limit the probability that supervisory staff will be delayed in operating fire alarm systems or providing access to fire protection systems or equipment in a fire situation, which could lead to delays or ineffectiveness in carrying out firefighting operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F12, F11, F13, F36-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability that special requirements pertaining to fire safety in high buildings will be omitted from fire safety plans, which could lead to:

- inappropriate and misleading messages being given over the voice communication system,
- inappropriate use of elevators, which could lead to persons being trapped in an elevator or being delivered to the fire floor,
- inappropriate use and operation of smoke control or fire emergency systems, which could lead to an increased hazard to occupants, and
- difficulty for firefighters in accessing the building and reaching the fire location.

This is to limit the probability that supervisory staff will be delayed in operating fire alarm systems or providing access to fire protection systems or equipment in a fire situation, which could lead to:

- delays in evacuation or movement to a safe place, which could lead to harm to persons, and
- delays or ineffectiveness in carrying out firefighting operations, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 2.8.2.5.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that the fire safety plan will not be available to supervisory staff or for reference by emergency responders in a fire emergency, which could lead to delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability that the fire safety plan will not be available to supervisory staff or for reference by emergency responders in a fire emergency, which could lead to delays or ineffectiveness in conducting firefighting operations, evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders.

Provision: 2.8.2.5.(2)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that the fire safety plan will not be available to supervisory staff or for reference by emergency responders in a fire emergency, which could lead to delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that the fire safety plan will not be available to supervisory staff or for reference by emergency responders in a fire emergency, which could lead to delays or ineffectiveness in conducting firefighting operations, evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders.

Provision: 2.8.2.6.(1)

Objective

OP1

Attributions

[F12, F13-OP1.2] [F01, F82-OP1.1] [F02, F82-OP1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that supervisory staff will not be familiar with fire emergency procedures and their duties in regard to a fire situation, which could lead to inappropriate actions.

This is to limit the probability that

- emergency responders will not be notified of a fire emergency,
- emergency responders will be delayed in carrying out their duties,
- designated supervisory staff will not be appointed and organized to respond to fire emergencies, and
- instructions, including schematic diagrams, describing the type, location and operation of building fire emergency systems will not be established.

This is to limit the probability of delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire, which could lead to damage to the building.

This is to limit the probability that

- fire hazards will not be controlled, and
- building facilities, systems, equipment and devices will not be properly inspected or maintained.

This is to limit the probability of fire or the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F11, F13, F12, F10-OS1.2, OS1.5] [F01, F82-OS1.1] [F02, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that supervisory staff will not be familiar with fire emergency procedures and their duties in regard to a fire situation, which could lead to inappropriate actions.

This is to limit the probability that:

- persons and emergency responders will not be notified of a fire emergency,
- emergency responders will be delayed in carrying out their duties,
- designated supervisory staff will not be appointed and organized to respond to fire emergencies,
- occupants will not practise evacuation procedures, and
- instructions, including schematic diagrams, describing the type, location and operation of building fire emergency systems will not be established.

This is to limit the probability of delays or ineffectiveness in conducting firefighting operations, evacuation or movement of persons to a safe place, which could lead to harm to persons including emergency responders.

This is to limit the probability that:

- fire hazards will not be controlled, and
- building facilities, systems, equipment and devices will not be properly inspected or maintained.

This is to limit the probability of fire or the spread of fire, which could lead to harm to persons.

Provision: 2.8.2.7.(1)

Objective

OS1

Attributions

[F10-OS1.5]

Intent(s)

Intent 1. To limit the probability that building occupants will not be familiar with fire emergency procedures, which could lead to delays in evacuation or movement to a safe place in a fire situation, which could lead to harm to persons.

Provision: 2.8.2.7.(2)

Objective

OS1

Attributions

[F10-OS1.5]

Intent(s)

Intent 1. To limit the probability that building occupants will not be familiar with egress routes or the location of exits, which could lead to delays in evacuation or movement to a safe place in a fire situation, which could lead to harm to persons.

Provision: 2.8.2.7.(3)

Objective

OP1

Attributions

[F13-OP1.2]

Intent(s)

Intent 1. To limit the probability that notification of the fire department will be delayed in a fire situation, which could lead to delays in conducting firefighting operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F13-OS1.2]

Intent(s)

Intent 1. To limit the probability that notification of the fire department will be delayed in a fire situation, which could lead to delays in conducting firefighting operations, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 2.8.3.1.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that supervisory staff will not be familiar with fire emergency procedures, which could lead to delays or ineffectiveness in conducting firefighting operations in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F12-OS1.2, OS1.5] [F10-OS1.5]

Intent(s)

Intent 1. To limit the probability that supervisory staff or building occupants will not be familiar with fire emergency procedures, which could lead to delays or ineffectiveness in conducting firefighting operations, evacuation or movement of persons to a safe place in a fire situation, which could lead to harm to persons, including emergency responders.

Provision: 2.8.3.2.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that supervisory staff will have forgotten or will not be familiar with fire emergency procedures, which could lead to delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2, OS1.5] [F10-OS1.5]

Intent(s)

Intent 1. To limit the probability that supervisory staff or building occupants will have forgotten or will not be familiar with fire emergency procedures, which could lead to delays or ineffectiveness in conducting firefighting operations, evacuation or movement of persons to a safe place in a fire situation, which could lead to harm to persons, including emergency responders.

Provision: 2.9.1.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing tents and air-supported structures.

Provision: 2.9.2.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that the flame retardant treatment will no longer be effective, which could lead to materials that have an inappropriately high flammability property, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that the flame retardant treatment will no longer be effective, which could lead to an inappropriately high flammability property of materials, which could lead to the spread of fire across the exposed surfaces of the materials, which could lead to:

- harm to persons, and
- delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.9.3.1.(1)

Objective

OP1

Attributions

[F82, F81, F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that electrical systems will not operate as originally intended, which could lead to unsafe conditions, which could lead to a fire or explosion, which could lead to damage to the building.

Objective

OS3

Attributions

[F82, F81-OS3.1, OS3.2, OS3.3, OS3.4]

Intent(s)

Intent 1. To limit the probability that electrical systems will not operate as originally intended, which could lead to unsafe conditions, which could lead to harm to persons [e.g. electrocution].

Objective

OS1

Attributions

[F82, F81, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that electrical systems will not operate as originally intended, which could lead to unsafe conditions, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 2.9.3.1.(2)

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in portable electrical systems will not be corrected, which could lead to unsafe conditions, which could lead to a fire or explosion, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in portable electrical systems will not be corrected, which could lead to unsafe conditions, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.9.3.1.(3)

Objective

OP1

Attributions

[F34-OP1.1]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will have access to electrical systems and equipment, which could lead to improper use or operation of the systems or equipment, which could lead to a fire or explosion, which could lead to damage to the building.

Objective

OS3

Attributions

[F34-OS3.3]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will have access to electrical systems and equipment, which could lead to contact with live electrical equipment, which could lead to harm to persons.

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will have access to electrical systems and equipment, which could lead to improper use or operation of the systems or equipment, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.9.3.1.(4)

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that electrical cables will be damaged, which could lead to unsafe conditions, which could lead to a fire or explosion, which could lead to damage to the building.

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that electrical cables will be damaged, which could lead to unsafe conditions, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.9.3.2.(1)

Objective

OS1

Attributions

[F02-OS1.2] Applies to portion of Code text: "... except that sawdust and shavings are permitted to be used if kept damp."

Intent(s)

Intent 1. To supersede the requirements in the first part of the Sentence if certain measures are taken.

This is to limit the probability that a fire involving the sawdust and shavings will spread beyond the point of fire origin, which could lead to harm to persons.

Objective

OS1

Attributions

[F02-OS1.2] Applies to the restriction of combustible materials within tents or *air-supported structures*.

Intent(s)

Intent 1. To limit the probability that a fire involving the hay, straw, shavings or similar combustible materials will spread beyond the point of fire origin, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 2.9.3.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that smoking material and open flame devices will ignite combustible materials, which could lead to a fire, which could lead to harm to persons.

Provision: 2.9.3.4.(1)

Objective

OS1

Attributions

[F12-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that a fire will not be discovered, which could lead to appropriate action to control or suppress the fire not being taken [e.g. use of portable extinguishers, sounding of the fire alarm, call to fire department, etc.] which could lead to:

- the spread of fire, which could lead to harm to persons, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 2.9.3.4.(2)

Objective

OS1

Attributions

2.9.3.4.(2)(a) [F10, F12-OS1.5] [F12-OS1.2] Applies to familiarity with the condition of the *exits*.

2.9.3.4.(2)(b) [F10, F12-OS1.5] [F12-OS1.2] Applies to the *means of egress* being kept clear.

Intent(s)

Intent 1. To limit the probability that exits or means of egress will be obstructed in a fire emergency, which could lead to persons being delayed or impeded in evacuating the building, which could lead to harm to persons.

Intent 2. To limit the probability that exits or means of egress will be obstructed in a fire emergency, which could lead to emergency responders being delayed or impeded in performing their duties, which could lead to:

- the spread of fire, which could lead to harm to persons, and
- delays in evacuation or movement to a safe place, which could lead to harm to persons.

Objective

OS1

Attributions

2.9.3.4.(2)(a) [F12-OS1.2, OS1.5] Applies to familiarity with the fire safety plan.

2.9.3.4.(2)(b) [F12-OS1.2, OS1.5] Applies to the requirements of the *authority having jurisdiction* .

Intent(s)

Intent 1. To limit the probability that persons employed to watch for fires will be unaware of procedures to follow in a fire emergency, which could lead to inappropriate actions being taken, which could lead to harm to persons.

Provision: 2.9.3.5.(1)

Objective

OP1

Attributions

[F13-OP1.2]

Intent(s)

Intent 1. [For fire alarm systems designed to notify the fire department.] To limit the probability that emergency responders will not be promptly notified in a fire situation, which could lead to delays in carrying out fire emergency response operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F11-OS1.5] [F13-OS1.2]

Intent(s)

Intent 1. To limit the probability that persons will not be promptly notified of a fire situation, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Intent 2. [For fire alarm systems designed to notify the fire department.] To limit the probability that emergency responders will not be promptly notified in a fire situation, which could lead to delays in carrying out fire emergency response operations, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 2.9.3.6.(1)

Intent(s)

Intent 1. To state the application of Section 6.5.

Provision: 2.10.1.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing day-care centres, in regard to their construction.

Provision: 2.10.2.1.(1)

Objective

OS1

Attributions

[F01-OS1.1, OS1.2] [F10-OS1.5] [F12, F13-OS1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that there will be an insufficient number of staff, which could lead to:

- unsafe conditions, which could lead to the start and spread of fire,
- delays in evacuation or movement to a safe place,
- delays in manual fire suppression operations, which could lead to the spread of fire, and
- delays in notification of emergency responders, which could lead to delays in carrying out emergency response operations, which could lead to the spread of fire.

This could lead to harm to persons.

Provision: 2.10.2.1.(2)

Objective

OS1

Attributions

[F12-OS1.5]

Intent(s)

Intent 1. To limit the probability that there will be an insufficient number of staff, which could lead to delays in evacuation or movement to a safe place in a fire situation, which could lead to harm to persons.

Provision: 2.10.3.1.(1)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials attached to walls will lead to the spread of fire in a fire situation, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials attached to walls will lead to the spread of fire in a fire situation, which could lead to harm to persons.

Provision: 2.10.3.2.(1)

Objective

OS1

Attributions

[F02, F01-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that a fire involving the materials in the receptacle will spread to the receptacle, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that nearby ignition sources will ignite materials stored in the receptacles, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F01-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the materials in the receptacle will spread to the receptacle, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that nearby ignition sources will ignite materials stored in the receptacles, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 2.10.3.3.(1)

Objective

OS1

Attributions

[F01, F34-OS1.1] Applies to storage in areas inaccessible to children.

Intent(s)

Intent 1. To limit the probability that actions of children will lead to ignition of flammable liquids or combustible liquids, which could lead to a fire or explosion, which could lead to harm to persons.

Intent(s)

Intent 1. To direct Code users to Part 4 for requirements regarding the storage of flammable liquids and combustible liquids in day-care centres.

Provision: 2.10.4.1.(1)

Objective

OS1

Attributions

[F01, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that fire hazards will not be identified and corrected, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.11.1.1.(1)

Intent Statements: NFC 2010

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to certain existing buildings.

Provision: 2.11.2.1.(1)

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that the installation of portable extinguishers will not be appropriate for the type of fire hazard present, which could lead to the ineffectiveness of the extinguishers to suppress or control a fire, which could lead to the spread of fire, which could lead to damage to the building.

Intent 2. To limit the probability that portable extinguishers will not be readily accessible, which could lead to delays in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire, which could lead to damage to the building.

Intent 3. To supersede Sentence 2.1.5.1.(1), which exempts the installation of portable extinguishers in dwelling units.

Objective

OS1

Attributions

[F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that the installation of portable extinguishers will not be appropriate for the type of fire hazard present, which could lead to the ineffectiveness of the extinguishers to suppress or control a fire, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To limit the probability that portable extinguishers will not be readily accessible, which could lead to delays in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire, which could lead to harm to persons.

Intent 3. To supersede Sentence 2.1.5.1.(1), which exempts the installation of portable extinguishers in dwelling units.

Provision: 2.12.1.1.(1)

Objective

OP1

Attributions

[F01, F02-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that fire hazards [for which the mall has not been designed to handle, or that are not addressed in the fire safety plan] will be created or introduced in the mall, which could lead to the start or spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F01, F02-OS1.1, OS1.2] [F10-OS1.5]

Intent(s)

Intent 1. To limit the probability that fire hazards [for which the mall has not been designed to handle, or that are not addressed in the fire safety plan] will be created or introduced in the mall, which could lead to the start or spread of fire, which could lead to harm to persons.

Intent 2. To limit the probability that egress routes or exits will become blocked or obstructed, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.12.1.1.(2)

Objective

OP1

Attributions

[F01, F02, F03-OP1.1, OP1.2]

Intent(s)

Intent 1. To exempt covered malls from the application of Sentence 2.12.1.1.(1) and permit their use for merchandising or public activities, if certain conditions are met.

This is to limit the probability that fire safety hazards will not be controlled, which could lead to the start and spread of fire, which could lead to damage to the building.

Intent 2. To state the application of Section 2.8. and Articles 2.12.1.2. to 2.12.1.9.

Objective

OS1

Attributions

[F01, F02, F03-OS1.1, OS1.2]

Intent(s)

Intent 1. To exempt covered malls from the application of Sentence 2.12.1.1.(1) and permit their use for merchandising or public activities, if certain conditions are met.

This is to limit the probability that fire safety hazards will not be controlled, which could lead to the start and spread of fire, which could lead to harm to persons.

Intent 2. To state the application of Section 2.8. and Articles 2.12.1.2. to 2.12.1.9.

Provision: 2.12.1.2.(1)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will be unable to suppress or control a fire, which could lead to the spread of fire, which could lead to damage to the building.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will be unable to suppress or control a fire, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 2.12.1.3.(1)

Intent(s)

Intent 1. To direct Code users to Article 1.2.1.1. for alternative measures.

Provision: 2.12.1.4.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 2.7.1. for requirements pertaining to access to exits within covered malls.

Provision: 2.12.1.5.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of delays in accessing fire protection equipment in a fire situation, which could lead to:

- [unintentionally] closed or inoperative sprinkler control valves not being opened or made operational, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire,
- delays in suppressing or controlling the fire, which could lead to the spread of fire, and
- emergency responders not being notified of a fire situation, which could lead to delays in emergency response operations, which could lead to the spread of fire.

This is to limit the probability of damage to the building.

Objective

OS1

Attributions

[F12-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability of delays in accessing fire protection equipment in a fire situation, which could lead to:

- [unintentionally] closed or inoperative sprinkler control valves not being opened or made operational, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire,
- delays in suppressing or controlling the fire, which could lead to the spread of fire,
- persons not being notified of a fire situation, which could lead to delays in evacuation or movement to a safe place, and
- emergency responders not being notified of a fire situation, which could lead to delays in emergency response operations, which could lead to the spread of fire.

This is to limit the probability of harm to persons.

Provision: 2.12.1.6.(1)

Intent(s)

Intent 1. To expand the application of Subsection 2.3.2. to decorative materials used for merchandising or public activities in covered malls.

Provision: 2.12.1.7.(1)

Objective

OS1

Attributions

[F01, F02-OS1.1, OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that flammable liquids, combustible liquids and Class 2.1 flammable gases will lead to or be involved in a fire, which could lead to:

- harm to persons, and
- impairment of means of egress, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.12.1.8.(1)

Objective

OS1

Attributions

[F01, F34-OS1.1, OS1.5]

Intent(s)

Intent 1. To supersede the requirements of Sentence 2.12.1.7.(1) and permit the display of fuelled equipment if certain measures are taken.

This is to limit the probability that:

- connected batteries will be a source of ignition, which could lead to the ignition of the flammable liquids, combustible liquids or Class 2.1 flammable gases, which could lead to a fire or explosion, and
- tampering with fuel tanks will occur [e.g. ignition source such as a lighted match or lighted cigarette will be thrown into the fuel tank], which could lead to the ignition of the flammable liquids, combustible liquids or Class 2.1 flammable gases, which could lead to a fire or explosion.

This is to limit the probability of:

Intent Statements: NFC 2010

- harm to persons, and
- impairment of means of egress, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.12.1.9.(1)

Objective

OS1

Attributions

2.12.1.9.(1)(a), 2.12.1.9.(1)(b), 2.12.1.9.(1)(c) [F43-OS1.1, OS1.5]

2.12.1.9.(1)(d) [F34, F81-OS1.1]

2.12.1.9.(1)(e) [F01-OS1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 2.12.1.7.(1) and permit the display of propane fuelled automotive vehicles if certain measures are taken.

This is to limit the probability that:

- the fuel tank or associated gas supply line will not operate as originally intended, which could lead to the unwanted release and subsequent ignition of the propane gas, which could lead to a fire or explosion,
- the fuel tank will be overfilled, which could lead to the unwanted release of propane gas, which could lead to the gas being ignited by a nearby ignition source, which could lead to a fire or explosion,
- tampering with the fuel tank filling connections will occur, which could lead to the unwanted release and subsequent ignition of the propane gas, which could lead to a fire or explosion, and
- connected batteries will be a source of ignition, which could lead to the ignition of the flammable liquids, combustible liquids or Class 2.1 flammable gases, which could lead to a fire or explosion.

This is to limit the probability of:

- harm to persons, and
- impairment of means of egress, which could lead to delays in evacuation or movement to a safe place, which could lead to harm to persons.

Provision: 2.13.1.1.(1)

Objective

OP1

Attributions

[F01, F02, F81-OP1.2, OP1.1]

Intent(s)

Intent 1. To limit the probability that helicopter landing areas on roofs will be improperly designed or constructed, which could lead to fire hazards, which could lead to the start or spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F01, F02, F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that helicopter landing areas on roofs will be improperly designed or constructed, which could lead to fire hazards, which could lead to the start or spread of fire, which could lead to harm to persons.

Provision: 2.13.2.1.(1)

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the helicopter landing area will spread to areas or rooms communicating with the landing area, which could lead to damage to the building.

Intent 2. To require the upgrading of fire separations in existing buildings to the standards for new buildings in the NBC.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the helicopter landing area will spread to areas or rooms communicating with the landing area, which could lead to harm to persons in the areas or rooms.

Intent 2. To require the upgrading of fire separations in existing buildings to the standards for new buildings in the NBC.

Provision: 2.13.2.2.(1)

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "Smoking shall not be permitted on helicopter landing areas on roofs ..."

Intent(s)

Intent 1. To limit the probability that smoking material will ignite combustible materials, dusts, vapours or gases, which could lead to a fire or explosion, which could lead to harm to persons.

Intent(s)

Intent 1. To state the application of Sentence 2.4.2.2.(1).

Intent Statements: NFC 2010

Provision: 2.13.2.3.(1)

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire at the helicopter landing area will not be suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire at the helicopter landing area will not be suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 2.13.2.4.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that helicopter refuelling, repair and maintenance operations will lead to a fire or explosion, which could lead to harm to persons.

Provision: 2.13.2.5.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fuel or oil leak or spill will go unnoticed, which could lead to the accumulation and subsequent ignition of vapour by a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that a fuel or oil leak or spill will go unnoticed, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that a fuel or oil leak or spill will go unnoticed, which could lead to the accumulation and subsequent ignition of vapour by a nearby ignition source, which could lead to damage to the building.

Provision: 3.1.1.1.(1)

Intent(s)

Intent 1. To state the application of Part 3.

Provision: 3.1.1.2.(1)

Objective

OS1

Attributions

[F01, F02, F03, F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that Class 7 radioactive materials will cause or be involved in a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.1.3.(1)

Objective

OS1

Attributions

[F01, F02, F03, F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that Class 1 explosives will cause or be involved in a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.1.4.(1)

Attributions

3.1.1.4.(1)(a)

Intent(s)

Intent 1. To exempt certain situations from the application of Part 3 on the basis that such situations are covered in Part 4.

Intent Statements: NFC 2010

Attributions

3.1.1.4.(1)(b)

Intent(s)

Intent 1. To exempt certain situations from the application of Part 3 where extraordinary conditions are present and alternative measures are taken to provide a level of safety equivalent to the one described in Part 3.

Provision: 3.1.1.4.(2)

Intent(s)

Intent 1. To clarify that, in case of conflict, Part 3 requirements supersede those prescribed in CAN/CSA-B149.1 and CAN/CSA-B149.2.

Objective

OS1

Attributions

[F01, F02, F03, F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that liquefied petroleum gases will cause or be involved in a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.1.4.(3)

Objective

OS1

Attributions

[F01, F02, F03, F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that natural gas will cause or be involved in a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent(s)

Intent 1. To override the requirement in the latter part of this Code provision [Record 02] and clarify that, in case of conflicts, Part 3 requirements supersede those prescribed in CAN/CSA B149.1.

Provision: 3.1.2.1.(1)

Intent(s)

Intent 1. To define the terminology used to describe dangerous goods in the National Fire Code of Canada and make it compatible with the "Transportation of Dangerous Goods Regulations."

Provision: 3.1.2.1.(2)

Intent(s)

Intent 1. To clarify the application of Part 3 to Class 9 dangerous goods.

Provision: 3.1.2.1.(3)

Intent(s)

Intent 1. To clarify the terminology used to describe Class 3 dangerous goods in the Code and make it compatible with the terminology in Article 4.1.2.1.

Provision: 3.1.2.2.(1)

Objective

OS1

Attributions

[F51-OS1.1]

Intent(s)

Intent 1. To limit the probability that Class 5.1 ammonium nitrate and Class 2 gases will be stored at temperatures at which they become highly reactive or unstable, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders

Provision: 3.1.2.2.(2)

Objective

OS1

Attributions

[F51-OS1.1]

Intent(s)

Intent 1. To limit the probability that dangerous goods will be stored at temperatures at which they become reactive or unstable, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.2.2.(3)

Objective

OS1

Attributions

[F51-OS1.1]

Intent(s)

Intent 1. To limit the probability that dangerous goods will be stored at temperatures at which they become reactive or unstable, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Provision: 3.1.2.3.(1)

Objective

OH5

Attributions

[F20, F43, F80, F81-OH5]

Intent(s)

Intent 1. To limit the probability of:

- an undesirable reaction between the packaged product and the packaging material, or
- mechanical damage to the package or container that may occur during normal material handling.

This is to limit the probability of the unwanted release of product, which could lead to harm to the public.

Objective

OS3

Attributions

[F20, F43, F80, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability of:

- an undesirable reaction between the packaged product and the packaging material, or
- mechanical damage to the package or container that may occur during normal material handling.

This is to limit the probability of the unwanted release of product, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F20, F43, F80, F81, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of:

- an undesirable reaction between the packaged product and the packaging material, or
- mechanical damage to the package or container that may occur during normal material handling.

This is to limit the probability of the unwanted release of product, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.2.3.(2)

Objective

OH5

Attributions

[F20, F43, F80, F81-OH5]

Intent(s)

Intent 1. To limit the probability of:

- an undesirable reaction between the packaged product and the packaging material, or
- mechanical damage to the package or container that may occur during normal material handling.

This is to limit the probability of the unwanted release of product, which could lead to harm to the public.

Objective

OS3

Attributions

[F20, F43, F80, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability of:

- an undesirable reaction between the packaged product and the packaging material, or
- mechanical damage to the package or container that may occur during normal material handling.

This is to limit the probability of the unwanted release of product, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F20, F43, F80, F81, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of:

- an undesirable reaction between the packaged product and the packaging material, or
- mechanical damage to the package or container that may occur during normal material handling.

This is to limit the probability of the unwanted release of product, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.2.4.(1)

Objective

OS3

Attributions

[F81-OS3.4]

Intent(s)

Intent 1. To limit the probability that mechanical damage to the tank or cylinder will lead to the unwanted release of compressed gases, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that mechanical damage to the tank or cylinder will lead to the unwanted release of compressed gases, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Provision: 3.1.2.4.(2)

Objective

OS3

Attributions

[F81-OS3.4]

Intent(s)

Intent 1. To limit the probability that mechanical damage to, or improper operation of, the valve assembly of stored cylinders will lead to the unwanted release of compressed gases, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that mechanical damage to, or improper operation of, the valve assembly of stored cylinders will lead to the unwanted release of compressed gases, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.2.4.(3)

Objective

OS3

Attributions

[F81, F22-OS3.4]

Intent(s)

Intent 1. To limit the probability that impacts or vibrations during transportation will lead to mechanical damage to cylinders, which could lead to the unwanted release of compressed gases, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F22, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that impacts or vibrations during transportation will lead to mechanical damage to cylinders, which could lead to the unwanted release of compressed gases, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.2.4.(4)

Objective

OS1

Attributions

[F05-OS1.5]

Intent(s)

Intent 1. To limit the probability that a fire or explosion will involve Class 2 compressed gases in or near egress routes, which could negatively affect the safe egress of building occupants, which could lead to harm to persons.

Provision: 3.1.2.5.(1)

Intent(s)

Intent 1. To clarify the application of Part 3 to reactive substances.

Provision: 3.1.2.5.(2)

Objective

OS1

Attributions

[F22, F51, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that reactive substances will have an undesirable reaction, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.2.5.(3)

Objective

OS1

Attributions

[F01, F52-OS1.1]

Intent(s)

Intent 1. To limit the probability that reactive substances will have an undesirable reaction with water or humidity, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.2.5.(4)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that reactive substances will have an undesirable reaction with air, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.2.6.(1)

Objective

OS1

Attributions

[F12-OS1.1]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in conducting spill control or firefighting operations, which could lead to harm to persons, including emergency responders.

Provision: 3.1.2.6.(2)

Objective

OS1

Attributions

[F12-OS1.1]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in conducting operations to control a fire emergency and to safely recover radioactive materials and equipment, which could lead to harm to persons, including emergency responders.

Provision: 3.1.3.1.(1)

Objective

OS1

Attributions

[F01, F81, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that industrial trucks will cause a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.3.1.(2)

Objective

OS1

Attributions

[F01, F81-OS1.1]

Intent(s)

Intent 1. To exempt the design and construction of fuel-fired industrial trucks from the application of the reference to NFPA 505 in Sentence 3.1.3.1.(1), if the industrial trucks are provided with fire safety features.

This is to limit the probability that such industrial trucks will cause a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.3.1.(3)

Objective

OS1

Attributions

[F01, F81-OS1.1]

Intent(s)

Intent 1. To exempt the design and construction of battery-powered industrial trucks from the application of the reference to NFPA 505 in Sentence 3.1.3.1.(1), if the industrial trucks are provided with fire safety features.

This is to limit the probability that such industrial trucks will cause a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.1.3.2.(1)

Objective

OS1

Attributions

3.1.3.2.(1)(a) [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fuel-fired industrial truck will be involved in a fire occurring in the building, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OP1

Attributions

3.1.3.2.(1)(a) [F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fuel-fired industrial truck will be involved in a fire occurring in the building, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Objective

OS1

Attributions

3.1.3.2.(1)(b) [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fuel-fired industrial truck will be involved in a fire occurring in the building, which could lead to the spread of the fire, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

3.1.3.2.(1)(b) [F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fuel-fired industrial truck will be involved in a fire occurring in the building, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Objective

OS1

Attributions

3.1.3.2.(1)(c) [F01, F02-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fuel-fired industrial truck will be involved in a fire occurring in the building, which could lead to the spread of the fire, which could lead to harm to persons.

Intent 2. To limit the probability that a fuel-fired industrial truck will create a fire hazard, which could lead to a fire, which could lead to the spread of fire to the building, which could lead to harm to persons.

Objective

OP1

Attributions

3.1.3.2.(1)(c) [F01, F02-OP1.1]

Intent(s)

Intent 1. To limit the probability that a fuel-fired industrial truck will be involved in a fire occurring in the building, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Intent 2. To limit the probability that a fuel-fired industrial truck will create a fire hazard, which could lead to a fire, which could lead to the spread of fire to the building, which could lead to damage to the building or facility.

Provision: 3.1.3.2.(2)

Objective

OS1

Attributions

[F01, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the industrial truck during refuelling will not be suppressed or controlled, which could lead to the spread of fire to the building, which could lead to harm to persons.

Intent 2. To limit the probability that, in the event of an unwanted release during refuelling, the escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F44-OP1.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the industrial truck during refuelling will not be suppressed or controlled, which could lead to the spread of fire to the building, which could lead to damage to the building or facility.

Intent 2. To limit the probability that, in the event of an unwanted release during refuelling, the escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 3.1.3.2.(3)

Objective

OS1

Attributions

3.1.3.2.(3)(a) to 3.1.3.2.(3)(c) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that ignition sources [such as open flames, sparks or heat] will ignite vapours, which could lead to harm to persons.

Objective

OP1

Attributions

3.1.3.2.(3)(a) to 3.1.3.2.(3)(c) [F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that ignition sources [such as open flames, sparks or heat] will ignite vapours, which could lead to damage to the building or facility.

Objective

OP1

Attributions

3.1.3.2.(3)(d) [F01, F02-OP1.1]

Intent(s)

Intent 1. To limit the probability that the outdoor storage of propane cylinders will create a fire hazard, which could expose the building to fire, which could lead to damage to the building.

Intent 2. To direct Code users to Subsection 3.3.5.

Objective

OS1

Attributions

3.1.3.2.(3)(d) [F01, F02-OS1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that the outdoor storage of propane cylinders will create a fire hazard, which could expose the building to fire, which could lead to harm to persons.

Intent 2. To direct Code users to Subsection 3.3.5.

Provision: 3.1.3.2.(4)

Objective

OS1

Attributions

[F03, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Intent 2. To supersede the requirements of Article 2.1.5.1.

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Intent 2. To supersede the requirements of Article 2.1.5.1.

Provision: 3.1.3.3.(1)

Objective

OS1

Attributions

3.1.3.3.(1)(a) [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving combustible products will spread, which could lead to harm to persons.

Objective

OP1

Attributions

3.1.3.3.(1)(a) [F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving combustible products will spread, which could lead to damage to the building or facility.

Objective

OS1

Attributions

3.1.3.3.(1)(b) to 3.1.3.3.(1)(d) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours will accumulate, which could lead to their ignition from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

3.1.3.3.(1)(b) to 3.1.3.3.(1)(d) [F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that vapours will accumulate, which could lead to their ignition from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 3.1.3.3.(2)

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Intent 2. To supersede the requirements of Article 2.1.5.1.

Objective

OS1

Attributions

[F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Intent 2. To supersede the requirements of Article 2.1.5.1.

Provision: 3.1.3.4.(1)

Objective

OP1

Attributions

[F12-OP1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that persons will not carry out proper procedures during normal operations and emergencies, which could lead to delays or mistakes, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F12-OS1.1]

Intent(s)

Intent 1. To limit the probability that persons will not carry out proper procedures during normal operations and emergencies, which could lead to delays or mistakes, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that delays or inappropriate actions in responding to fires or spill emergencies will lead to the spread of fire beyond the point of origin, which could lead to damage to building or facility.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that delays or inappropriate actions in responding to fires or spill emergencies will lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Provision: 3.1.4.1.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to wiring and electrical equipment located in areas where flammable gases or vapours, combustible dusts or combustible fibres are present in quantities sufficient to create a hazard.

Provision: 3.2.1.1.(1)

Attributions

3.2.1.1.(1)(a)

Intent(s)

Intent 1. To state the application of Section 3.2.

Provision: 3.2.1.1.(2)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To exempt, from the application of Part 3, storage situations where extraordinary conditions exist that must be addressed by design and operational details specific to the hazard, if alternative protection is provided in conformance with Article 1.2.1.1.

This is to limit the probability that a fire will not be suppressed or controlled, which could lead to the spread of fire, which could lead damage to the building.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To exempt, from the application of Part 3, storage situations where extraordinary conditions exist that must be addressed by design and operational details specific to the hazard, if alternative protection is provided in conformance with Article 1.2.1.1.

This is to limit the probability that a fire will not be suppressed or controlled, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 3.2.2.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.2.2.

Intent(s)

Intent 1. To clarify that, in cases where the provisions of Subsection 3.2.2. [regarding the indoor storage of any product covered in Section 3.2.] are in conflict with other provisions in the Code, those [other] provisions shall take precedence.

Provision: 3.2.2.2.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.2.(2)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.2.(3)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.2.(4)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Intent 2. To state the application of Sentences 3.2.2.2.(5) to 3.2.2.2.(8) with respect to main aisles.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Intent 2. To state the application of Sentences 3.2.2.2.(5) to 3.2.2.2.(8) with respect to main aisles.

Provision: 3.2.2.2.(5)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2] [F06-OS1.5]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of obstruction of access aisles upon premature collapse of piles of stored products during firefighting operations, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Intent Statements: NFC 2010

Provision: 3.2.2.2.(6)

Objective

OP1

Attributions

[F06, F02-OP1.2]

Intent(s)

Intent 1. To permit the minimum 6 m aisle width required in Clause 3.2.2.2.(5)(b) to be reduced to 2.4 m if certain conditions are met [the products are stored in racks and the building is sprinklered].

This is to limit the probability that:

- piles of stored products will collapse prematurely during firefighting operations, and
- a fire will not be suppressed or controlled. This could lead to the spread of fire in the stored products to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F06-OS1.5] [F02-OS1.2]

Intent(s)

Intent 1. To permit the minimum 6 m aisle width required in Clause 3.2.2.2.(5)(b) to be reduced to 2.4 m if certain conditions are met [the products are stored in racks and the building is sprinklered].

This is to limit the probability that:

- piles of stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders, and
- a fire will not be suppressed or controlled, which could lead to the spread of fire in the stored products to other parts of the building, which could lead to harm to persons.

Provision: 3.2.2.2.(7)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.2.(8)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.3.(1)

Objective

OP1

Attributions

[F21-OP1.3, OP1.2]

Intent(s)

Intent 1. To limit the probability that water from firefighting operations will cause the stored products to swell, which could lead to structural failure of the building, which could lead to damage to the building.

Intent 2. To limit the probability that water from firefighting operations will cause the stored products to swell, which could lead to structural failure of the building, which could lead to:

- delays or ineffectiveness in emergency response operations, or
- impairment of automatic fire suppression systems, which could lead to such systems not suppressing or controlling a fire.

This is to limit the probability of the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F21-OS1.3, OS1.2]

Intent(s)

Intent 1. To limit the probability that water from firefighting operations will cause the stored products to swell, which could lead to structural failure of the building, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that water from firefighting operations will cause the stored products to swell, which could lead to structural failure of the building, which could lead to:

Intent Statements: NFC 2010

- delays or ineffectiveness in emergency response operations, or
- impairment of automatic fire suppression systems, which could lead to such systems not suppressing or controlling a fire.

This is to limit the probability of the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.3.(2)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that firefighting operations will be delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 3.2.2.3.(3)

Objective

OP1

Attributions

[F04-OP1.3, OP1.2]

Intent(s)

Intent 1. To limit the probability that the lower chords of floor or roof structural framing members will be subjected to excessive temperatures in a fire situation, which could lead to their premature failure or collapse, which could lead to damage to the building.

Intent 2. To limit the probability that the lower chords of floor or roof structural framing members will be subjected to excessive temperatures in a fire situation, which could lead to their premature failure or collapse, which could lead to:

- delays or ineffectiveness in emergency response operations, or
- impairment of automatic fire suppression systems, which could lead to such systems not suppressing or controlling a fire.

This is to limit the probability of the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F04-OS1.3, OS1.2]

Intent(s)

Intent 1. To limit the probability that the lower chords of floor or roof structural framing members will be subjected to excessive temperatures in a fire situation, which could lead to their premature failure or collapse, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that the lower chords of floor or roof structural framing members will be subjected to excessive temperatures in a fire situation, which could lead to their premature failure or collapse, which could lead to:

- delays or ineffectiveness in emergency response operations, or
- impairment of automatic fire suppression systems, which could lead to such systems not suppressing or controlling a fire.

This is to limit the probability of the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.3.(4)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that water distribution from sprinkler systems onto stored products will be inadequate in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that water distribution from sprinkler systems onto stored products will be inadequate in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 3.2.2.3.(5)

Objective

OS1

Attributions

[F01-OS1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that stored products will be ignited by a fire originating in duct or blower systems, which could lead to harm to persons.

Provision: 3.2.2.4.(1)

Intent(s)

Intent 1. To direct Code users to Section 3.3.

Provision: 3.2.2.4.(2)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 3.2.2.4.(1), which would otherwise require that the products be stored outdoors, and permit indoor product storage if certain size limitations are met.

This is to limit the probability that the fire load of the products will not be controlled or limited, which could lead to the ineffectiveness of manual firefighting operations in a fire situation involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 3.2.2.4.(1), which would otherwise require that the products be stored outdoors, and permit indoor product storage if certain size limitations are met.

This is to limit the probability that the fire load of the products will not be controlled or limited, which could lead to the ineffectiveness of manual firefighting operations in a fire situation involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to harm to persons.

Provision: 3.2.2.4.(3)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 3.2.2.4.(1), which would otherwise require that combustible pallets be stored outdoors, and permit them to be stored indoors without the limitations on size stated in Sentence 3.2.2.4.(2), if pile storage conforms to NFPA 13.

This is to limit the probability that a sprinkler system will not suppress or control a fire involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 3.2.2.4.(1), which would otherwise require that combustible pallets be stored outdoors, and permit them to be stored indoors without the limitations on size stated in Sentence 3.2.2.4.(2), if pile storage conforms to NFPA 13.

This is to limit the probability that a sprinkler system will not suppress or control a fire involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 3.2.2.5.(1)

Intent(s)

Intent 1. To state the application of Section 2.8. and Sentences 3.2.2.5.(2) , 3.2.2.5.(3) and 3.2.2.5.(5).

Provision: 3.2.2.5.(2)

Objective

OP1

Attributions

[F81, F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, or accidental mixing or mishandling of products, which could lead to inappropriate emergency response actions in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Intent 2. To limit the probability that the fire load of the products will not be controlled or limited, which could lead to the ineffectiveness of automatic or manual firefighting operations in a fire situation involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to damage to the building.

Intent 3. To limit the probability that aisle widths will be inadequate, which could lead to firefighting operations being delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F81-OS1.1] [F81, F02, F12-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability of unsafe storage practices, or accidental mixing or mishandling of products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, or accidental mixing or mishandling of products, which could lead to inappropriate emergency response actions in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that the fire load of the products will not be controlled or limited, which could lead to the ineffectiveness of automatic or manual firefighting operations in a fire situation involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to harm to persons, including emergency responders.

Intent 4. To limit the probability that aisle widths will be inadequate, which could lead to firefighting operations being delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.5.(3)

Objective

OP1

Attributions

[F81, F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, or accidental mixing or mishandling of products, which could lead to inappropriate emergency response actions in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Intent 2. To limit the probability that the fire load of the products will not be controlled or limited, which could lead to the ineffectiveness of automatic or manual firefighting operations in a fire situation involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to damage to the building.

Intent 3. To limit the probability that aisle widths will be inadequate, which could lead to firefighting operations being delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F81-OS1.1] [F81, F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, or accidental mixing or mishandling of products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, or accidental mixing or mishandling of products, which could lead to inappropriate emergency response actions in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that the fire load of the products will not be controlled or limited, which could lead to the ineffectiveness of automatic or manual firefighting operations in a fire situation involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to harm to persons, including emergency responders.

Intent 4. To limit the probability that aisle widths will be inadequate, which could lead to firefighting operations being delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.5.(4)

Objective

OP1

Attributions

[F81, F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, or accidental mixing or mishandling of products, which could lead to inappropriate emergency response actions in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Intent 2. To limit the probability that the fire load of the products will not be controlled or limited, which could lead to the ineffectiveness of automatic or manual firefighting operations in a fire situation involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to damage to the building.

Intent 3. To limit the probability that aisle widths will be inadequate, which could lead to firefighting operations being delayed or ineffective, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F81-OS1.1] [F81, F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, or accidental mixing or mishandling of products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, or accidental mixing or mishandling of products, which could lead to inappropriate emergency response actions in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that the fire load of the products will not be controlled or limited, which could lead to the ineffectiveness of automatic or manual firefighting operations in a fire situation involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to harm to persons, including emergency responders.

Intent 4. To limit the probability that aisle widths will be inadequate, which could lead to firefighting operations being delayed or ineffective, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.5.(5)

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that the location and quantity of the stored products will not be known, which could lead to inappropriate emergency response actions in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Intent 2. To limit the probability that the fire load of the stored products will not be known, which could lead to the ineffectiveness of automatic or manual firefighting operations in a fire situation involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that the location and quantity of the stored products will not be known, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, or accidental mixing or mishandling of products, which could lead to inappropriate emergency response actions in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that the fire load of the stored products will not be known, which could lead to the ineffectiveness of automatic or manual firefighting operations in a fire situation involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to harm to persons, including emergency responders.

Provision: 3.2.2.6.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the stored products will be ignited by smoking material, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.2.7.(1)

Objective

OS1

Attributions

[F20-OS1.1, OS1.2] [F04-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that:

- stored products will collapse, which could lead to the unwanted release of the products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders,

- stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Provision: 3.2.3.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.2.3.

Provision: 3.2.3.1.(2)

Intent(s)

Intent 1. To direct Code users to Part 4.

Provision: 3.2.3.2.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that manual or automatic fire suppression systems will be ineffective in suppressing or controlling a fire involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that manual or automatic fire suppression systems will be ineffective in suppressing or controlling a fire involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to damage to the building.

Objective

OP1

Attributions

[F04-OP1.2]

Intent(s)

Intent 1. To limit the probability that stored products will collapse prematurely in a fire situation, which could lead to the spread of fire across required aisles and clear spaces, which could lead to damage to the building.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F20-OS1.1] [F04-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that stored products will collapse, which could lead to the unwanted release of the products, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Provision: 3.2.3.2.(2)

Objective

OP1

Attributions

[F04, F02-OP1.2]

Intent(s)

Intent 1. To remove limits to the height of storage of products listed in Table 3.2.3.2. [as stated in Sentence 3.2.3.2.(1)] if certain measures are taken [building is sprinklered and storage is in racks].

This is to limit the probability that:

- stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to damage to the building, and
- a fire will not be suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F20-OS1.1] [F04, F02-OS1.2]

Intent(s)

Intent 1. To remove limits to the height of storage of products listed in Table 3.2.3.2. [as stated in Sentence 3.2.3.2.(1)] if certain measures are taken [building is sprinklered and storage is in racks].

This is to limit the probability that:

- stored products will collapse, which could lead to the unwanted release of the products, which could lead to a fire or explosion, which could lead to harm to persons,
- stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- a fire will not be suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 3.2.3.3.(1)

Objective

OP1

Attributions

[F02, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 3.2.3.3.(2)

Objective

OP1

Attributions

[F02, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 3.2.4.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.2.4.

Intent Statements: NFC 2010

Provision: 3.2.4.2.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regards to the minimum fire-resistance rating of fire separations that separate tire storage areas from the remainder of the building.

Provision: 3.2.4.3.(1)

Objective

OP1

Attributions

[F02, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire involving the rubber tires, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire involving the rubber tires, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 3.2.4.4.(1)

Objective

OP1

Attributions

[F02, F12, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will not be appropriate for the type of fire hazard present, which could lead to their being ineffective in suppressing or controlling a fire, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building.

Intent 2. To limit the probability that portable extinguishers will not be readily accessible, which could lead to delays in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F12, F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will not be appropriate for the type of fire hazard present, which could lead to their being ineffective in suppressing or controlling a fire, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To limit the probability that portable extinguishers will not be readily accessible, which could lead to delays in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Provision: 3.2.5.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.2.5.

Provision: 3.2.5.2.(1)

Intent(s)

Intent 1. To establish the terminology used to describe the classification of aerosol products in Subsection 3.2.5. and make it compatible with NFPA 30B.

Provision: 3.2.5.3.(1)

Intent(s)

Intent 1. To expand the application of the protection requirements for Class III commodities in Article 3.2.3.2. and make them applicable to packaged Level 1 aerosol products.

Intent 2. To exempt packaged Level 1 aerosol products from the application of Subsection 3.2.5.

Provision: 3.2.5.4.(1)

Objective

OP1

Attributions

[F02, F03-OP1.2] Applies to conformance to Table 3.2.5.4.

Intent(s)

Intent 1. To limit the probability that a fire involving the aerosol products will spread beyond its area of origin, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F03-OS1.2] Applies to conformance to Table 3.2.5.4.

Intent(s)

Intent 1. To limit the probability that a fire involving the aerosol products will spread beyond its area of origin, which could lead to harm to persons.

Intent(s)

Intent Statements: NFC 2010

Intent 1. To direct Code users to Article 3.2.5.5. to 3.2.5.8.

Provision: 3.2.5.4.(2)

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that the level of protection will not be appropriate for the hazard presented by the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that the level of protection will not be appropriate for the hazard presented by the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to harm to persons.

Provision: 3.2.5.5.(1)

Objective

OP1

Attributions

[F02, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 3.2.5.5.(2)

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To clarify that, if the sprinkler system does not meet certain standards, the storage of products shall conform to the limits for unsprinklered buildings specified in Table 3.2.5.4.

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a sprinkler system will not suppress or control a fire involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To clarify that, if the sprinkler system does not meet certain standards, the storage of products shall conform to the limits for unsprinklered buildings specified in Table 3.2.5.4.

Provision: 3.2.5.6.(1)

Objective

OS1

Attributions

[F20-OS1.2]

Intent(s)

Intent 1. To limit the probability that rocketing aerosol cans will not be contained to the dedicated storage area in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F20-OP1.2]

Intent(s)

Intent 1. To limit the probability that rocketing aerosol cans will not be contained to the dedicated storage area in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 3.2.5.6.(2)

Objective

OS1

Attributions

[F20-OS1.2]

Intent(s)

Intent 1. To limit the probability that rocketing aerosol cans will not be contained to the dedicated storage area in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Provision: 3.2.5.7.(1)

Objective

OP1

Attributions

[F03, F20-OP1.2]

Intent(s)

Intent 1. To limit the probability that rocketing aerosol cans will not be contained to the dedicated storage area in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that a fire involving the stored products will spread to other parts of the building, which could lead to damage to the building.

Intent 3. To limit the probability that a fire outside the storage area will spread to the storage area and involve the stored products, which could lead to an explosion or the further spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F03, F20-OS1.2]

Intent(s)

Intent 1. To limit the probability that rocketing aerosol cans will not be contained to the dedicated storage area in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that a fire involving the stored products will spread to other parts of the building, which could lead to harm to persons.

Intent 3. To limit the probability that a fire outside the storage area will spread to the storage area and involve the stored products, which could lead to an explosion or the further spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.5.8.(1)

Objective

OP1

Attributions

[F04-OP1.2]

Intent(s)

Intent 1. To limit the probability that stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F20, F81-OS1.1] [F04-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that stored products will collapse, which could lead to the unwanted release of the products, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Intent 4. To limit the probability of mishandling [such as by forklift trucks] when placing aerosol products at excessive heights, which could lead to the unwanted release of the products, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.5.8.(2)

Objective

OS1

Attributions

3.2.5.8.(2)(b) [F02, F03, F20, F04-OS1.2] [F20-OS1.1]

Intent(s)

Intent 1. To increase the limits to the height of storage stated in Sentence 3.2.5.8.(1) if certain conditions are met.

This is to limit the probability that:

- a fire involving the stored products will spread to other parts of the building, which could lead to harm to persons,
- rocketing aerosol cans will not be contained to the dedicated storage area in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders,
- stored products will collapse, which could lead to the unwanted release of the products, which could lead to a fire or explosion, which could lead to harm to persons, and
- stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Objective

OP1

Attributions

3.2.5.8.(2)(b) [F02, F03, F04, F20-OP1.2]

Intent(s)

Intent 1. To increase the limits to the height of storage stated in Sentence 3.2.5.8.(1) if certain conditions are met.

This is to limit the probability that:

- a fire involving the stored products will spread to other parts of the building, which could lead to damage to the building,
- rocketing aerosol cans will not be contained to the dedicated storage area in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building, and
- stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OP1

Attributions

3.2.5.8.(2)(a) [F02, F03, F20-OP1.2]

Intent(s)

Intent 1. To increase the limits to the height of storage stated in Sentence 3.2.5.8.(1) if certain conditions are met.

This is to limit the probability that:

- a fire involving the stored products will spread to other parts of the building, which could lead to damage to the building, and
- rocketing aerosol cans will not be contained to the dedicated storage area in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

3.2.5.8.(2)(a) [F02, F03, F20-OS1.2]

Intent(s)

Intent 1. To increase the limits to the height of storage stated in Sentence 3.2.5.8.(1) if certain conditions are met.

This is to limit the probability that:

- a fire involving the stored products will spread to other parts of the building, which could lead to harm to persons, and
- rocketing aerosol cans will not be contained to the dedicated storage area in a fire situation, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Provision: 3.2.5.9.(1)

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread beyond its area of origin, which could lead to damage to the building.

Objective

OS1

Attributions

[F03-OS1.2] [F06-OS1.5]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread beyond its area of origin, which could lead to harm to persons.

Intent 2. To limit the probability of total obstruction of access aisles upon premature collapse of the stored products during firefighting operations, which could lead to negative effects on the safe egress of emergency responders.

Provision: 3.2.6.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.2.6.

Provision: 3.2.6.2.(1)

Intent(s)

Intent 1. To expand the application of Article 3.1.2.6. of the National Building Code of Canada to existing buildings in regard to the storage of baled combustible fibres.

Provision: 3.2.6.3.(1)

Objective

OS1

Attributions

[F03, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread beyond its area of origin, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F03, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread beyond its area of origin, which could lead to damage to the building or facility.

Provision: 3.2.6.3.(2)

Objective

OP1

Attributions

[F03, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the room involving the stored products will spread beyond the room to other parts of the building, which could lead damage to the building.

Objective

OS1

Attributions

[F03, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the room involving the stored products will spread beyond the room to other parts of the building, which could lead to harm to persons.

Provision: 3.2.6.3.(3)

Objective

OP1

Attributions

[F03, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the room involving the stored products will spread beyond the room to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F03, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the room involving the stored products will spread beyond the room to other parts of the building, which could lead to harm to persons.

Provision: 3.2.6.3.(4)

Objective

OS1

Attributions

[F03, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the room involving the stored products will spread outside the room to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F03, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the room involving the stored products will spread outside the room to other parts of the building, which could lead to damage to the building or facility.

Provision: 3.2.6.3.(5)

Objective

OS1

Attributions

[F03, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the room involving the stored products will spread outside the room to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F03, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the room involving the stored products will spread outside the room to other parts of the building, which could lead to damage to the building or facility.

Provision: 3.2.6.4.(1)

Objective

OS1

Attributions

3.2.6.4.(1)(b) [F04-OS1.2, OS1.5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Intent 2. To limit the probability that stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

3.2.6.4.(1)(a) [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread beyond the area of fire origin, which could lead to damage to the building.

Objective

OS1

Attributions

3.2.6.4.(1)(d) [F21-OS1.3, OS1.2]

Intent(s)

Intent 1. To limit the probability that water from firefighting operations will cause the stored products to swell, which could lead to structural failure of the building, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that water from firefighting operations will cause the stored products to swell, which could lead to structural failure of the building, which could lead to:

- delays or ineffectiveness in emergency response operations, or
- impairment of automatic fire suppression systems, which could lead to such systems not suppressing or controlling a fire.

This is to limit the probability of the spread of fire, which could lead to harm to persons, including emergency responders.

Intent 3. To supersede and increase the minimum clearance of 600 mm required in Sentence 3.2.2.3.(1).

Objective

OP1

Attributions

3.2.6.4.(1)(b) [F04-OP1.2]

Intent(s)

Intent 1. To limit the probability that stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

3.2.6.4.(1)(c) [F21-OS1.5]

Intent(s)

Intent 1. To limit the probability that the swelling or expansion of the stored products during firefighting operations will obstruct aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Objective

OP1

Attributions

3.2.6.4.(1)(d) [F21-OP1.3, OP1.2]

Intent(s)

Intent 1. To limit the probability that water from firefighting operations will cause the stored products to swell, which could lead to structural failure of the building, which could lead to damage to the building.

Intent 2. To limit the probability that water from firefighting operations will cause the stored products to swell, which could lead to structural failure of the building, which could lead to:

- delays or ineffectiveness in emergency response operations, or
- impairment of automatic fire suppression systems, which could lead to such systems not suppressing or controlling a fire.

This is to limit the probability of the spread of fire, which could lead to damage to the building.

Intent 3. To supersede and increase the minimum clearance of 600 mm required in Sentence 3.2.2.3.(1).

Objective

OS1

Attributions

3.2.6.4.(1)(a) [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread beyond the area of fire origin, which could lead to harm to persons.

Provision: 3.2.6.4.(2)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To increase the limit on the size of individual storage areas specified in Clause 3.2.6.4.(1)(a) if certain measures are taken [building is sprinklered].

This is to limit the probability that a fire will not be suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To increase the limit on the size of individual storage areas specified in Clause 3.2.6.4.(1)(a) if certain measures are taken [building is sprinklered].

This is to limit the probability that a fire will not be suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 3.2.6.4.(3)

Objective

OS1

Attributions

3.2.6.4.(3)(b) [F04-OS1.5, OS1.2]

Intent(s)

Intent 1. To increase the limit on the height of storage for baled combustible fibres specified in Clause 3.2.6.4.(1)(b) if the storage consists of baled raw pulp.

This is to limit the probability that:

- stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders, and
- stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

3.2.6.4.(3)(b) [F04-OP1.2]

Intent(s)

Intent 1. To increase the limit on the height of storage of baled combustible fibres specified in Clause 3.2.6.4.(1)(b) if storage consists of baled raw pulp.

This is to limit the probability that stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OP1

Attributions

3.2.6.4.(3)(a) [F02-OP1.2]

Intent(s)

Intent 1. To increase the limit on the size of individual storage areas for baled combustible fibres specified in Clause 3.2.6.4.(1)(a) if storage consists of baled raw pulp.

This is to limit the probability that a fire will spread to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

3.2.6.4.(3)(a) [F02-OS1.2]

Intent(s)

Intent 1. To increase the limit on the size of individual storage areas for baled combustible fibres specified in Clause 3.2.6.4.(1)(a) if the storage consists of baled raw pulp.

This is to limit the probability that a fire will spread to other parts of the building, which could lead to harm to persons.

Provision: 3.2.6.4.(4)

Objective

OS1

Attributions

3.2.6.4.(4)(b) [F04-OS1.5, OS1.2]

Intent(s)

Intent 1. To increase the limit on the height of storage of baled combustible fibres specified in Clause 3.2.6.4.(1)(b) if storage consists of baled raw pulp.

This is to limit the probability that:

- stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders, and
- stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

3.2.6.4.(4)(b) [F04-OP1.2]

Intent(s)

Intent 1. To increase the limit on the height of storage of baled combustible fibres specified in Clause 3.2.6.4.(1)(b) if storage consists of baled raw pulp.

This is to limit the probability that stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OP1

Attributions

3.2.6.4.(4)(a) [F02-OP1.2]

Intent(s)

Intent 1. To increase the limit on the size of individual storage areas for baled combustible fibres specified in Clause 3.2.6.4.(1)(a) if storage consists of baled raw pulp.

This is to limit the probability that a fire will spread to other parts of the building, which could lead to damage to the building.

Intent Statements: NFC 2010

Objective

OS1

Attributions

3.2.6.4.(4)(a) [F02-OS1.2]

Intent(s)

Intent 1. To increase the limit on the size of individual storage areas for baled combustible fibres specified in Clause 3.2.6.4.(1)(a) if storage consists of baled raw pulp.

This is to limit the probability that a fire will spread to other parts of the building, which could lead to harm to persons.

Provision: 3.2.6.4.(5)

Objective

OP1

Attributions

[F04-OP1.2]

Intent(s)

Intent 1. To limit the probability that stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F04-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability that stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Intent 2. To limit the probability that stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 3.2.6.5.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that stored products will be ignited by appliances or heating equipment, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.6.5.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that stored products will be ignited by appliances or heating equipment, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.7.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.2.7.

Intent(s)

Intent 1. To clarify that in cases where the provisions of Subsection 3.2.7. [regarding the storage of dangerous goods] are in conflict with Part 4 or other provisions of the Code [i.e. Subsections 3.2.5., Subsection 3.2.8. et 3.2.9.], Part 4 and the other provisions of the Code take precedence.

Provision: 3.2.7.1.(2)

Intent(s)

Intent 1. To clarify the classification of dangerous goods and how they are covered in the National Fire Code.

Provision: 3.2.7.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that dangerous goods will be ignited by heating appliances, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.7.2.(2)

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "Smoking shall not be permitted within a *fire compartment* used for the storage of *dangerous goods* ..."

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that smoking material will ignite the dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons.

Intent(s)

Intent 1. To state the application of Article 2.4.2.2. regarding signs.

Provision: 3.2.7.2.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that dangerous goods will be ignited by open flames or spark-producing devices, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.7.3.(1)

Objective

OS1

Attributions

3.2.7.3.(1)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours or gases will accumulate in sufficient quantity to form an ignitable mixture, which could lead to their ignition from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS3

Attributions

3.2.7.3.(1)(b) [F40-OS3.4]

Intent(s)

Intent 1. To limit the probability that toxic gases will accumulate in sufficient quantity to create a health hazard, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

3.2.7.3.(1)(a) [F51, F52-OS1.1]

Intent(s)

Intent 1. To limit the probability that the product's packaging will fail under moist or high-temperature conditions, which could lead to the unwanted escape of the product, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that the stored products will become thermally unstable, which could lead to product degradation, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that Class 4 products will adversely react with moisture, which could lead to the unwanted release of the product, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Objective

OS3

Attributions

3.2.7.3.(1)(a) [F51, F52-OS3.4]

Intent(s)

Intent 1. To limit the probability that the product's packaging will fail under moist or high-temperature conditions, which could lead to the unwanted escape of the product, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.4.(1)

Objective

OS1

Attributions

[F81, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the accumulation of waste packaging materials, debris or spilled products will lead to an adverse reaction with the dangerous goods, which could lead to the unwanted release of the product, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that the accumulation of waste packaging materials, debris or spilled products will be a source of ignition or will contribute to the spread of fire, which could lead to a fire or explosion involving the dangerous goods, which could lead to harm to persons.

Provision: 3.2.7.4.(2)

Objective

OS3

Attributions

[F43, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability that damaged containers or packages will lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that mislabelled repackaged dangerous goods will come into contact with incompatible products, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that damaged containers or packages will lead to the unwanted release of dangerous goods, which could lead to harm to the public.

Objective

OS1

Attributions

[F43, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that damaged containers or packages will lead to the unwanted release of dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that mislabelled repackaged dangerous goods will come into contact with incompatible products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.5.(1)

Objective

OS1

Attributions

3.2.7.5.(1)(b) [F20-OS1.1, OS1.2] [F04-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that:

- stored products will collapse, which could lead to the unwanted release of the products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders,
- stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Objective

OS3

Attributions

3.2.7.5.(1)(b) [F20-OS3.4]

Intent(s)

Intent 1. To limit the probability that stored products will collapse, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS3

Attributions

3.2.7.5.(1)(a) [F20-OS3.4]

Intent(s)

Intent 1. To limit the probability that stored products will collapse, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

3.2.7.5.(1)(a) [F20-OS1.1, OS1.2] [F04-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that:

- stored products will collapse, which could lead to the unwanted release of the products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders,
- stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Objective

OS1

Attributions

3.2.7.5.(1)(c) [F02-OS1.1]

Intent(s)

Intent 1. To limit the probability that manual or automatic fire suppression systems will be ineffective in suppressing or controlling a fire involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to harm to persons.

Objective

OP1

Attributions

3.2.7.5.(1)(c) [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that manual or automatic fire suppression systems will be ineffective in suppressing or controlling a fire involving the stored products, which could lead to the spread of fire beyond its area of origin, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 3.2.7.5.(2)

Objective

OS1

Attributions

[F20-OS1.1, OS1.2] [F04-OS1.2, OS1.5] [F02-OS1.2]

Intent(s)

Intent 1. To supersede the requirements of Clause 3.2.7.5.(1)(b) and Table 3.2.7.1., which would otherwise limit storage height, if the dangerous goods are stored on racks or shelves in a protected area.

This is to limit the probability that:

- stored products will collapse, which could lead to the unwanted release of the products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders,
- stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders,
- stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders, and
- a fire involving the stored products will spread to other parts of the building, which could lead to harm to persons.

Provision: 3.2.7.5.(3)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire will not be suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To direct Code users to Sentence 6.4.1.1.(1), Article 2.1.3.5., and Article 6.6.1.1., and to caution that the extinguishing agent and method shall be determined based on the hazardous properties of the specific dangerous goods to be protected.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire will not be suppressed or controlled, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To direct Code users to Sentence 6.4.1.1.(1), Article 2.1.3.5., and Article 6.6.1.1., and to caution that the extinguishing agent and method shall be determined based on the hazardous properties of the specific dangerous goods to be protected.

Provision: 3.2.7.5.(4)

Objective

OS3

Attributions

[F81, F43, F12-OS3.4]

Intent(s)

Intent 1. To limit the probability that dangerous goods containers or packaging will sustain water damage in the event of accidental water leakage and accumulation on the floor, which could lead to pile instability or failure of the containers or packages, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that escaped dangerous goods will come into contact with containers or packaging materials or with other dangerous goods, and adversely react with them, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that spill control operations will be delayed, which could lead to the spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F81, F12-OH5]

Intent(s)

Intent 1. To limit the probability that dangerous goods containers or packaging will sustain water damage in the event of accidental water leakage and accumulation on the floor, which could lead to pile instability or failure of the containers or packages, which could lead to the unwanted release of dangerous goods, which could lead to harm to the public.

Intent 2. To limit the probability that spill control operations will be delayed, which could lead to the spread of dangerous goods, which could lead to harm to the public.

Objective

OS1

Attributions

[F81, F01, F12-OS1.1]

Intent(s)

Intent 1. To limit the probability that dangerous goods containers or packaging will sustain water damage in the event of accidental water leakage and accumulation on the floor, which could lead to pile instability or failure of the containers or packages, which could lead to the unwanted release of dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that escaped dangerous goods will come into contact with containers or packaging materials or with other dangerous goods, and adversely react with them, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that spill control operations will be delayed, which could lead to the spread of dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Provision: 3.2.7.5.(5)

Intent(s)

Intent 1. To clarify the application of Part 4 which, in cases of conflict, supersedes the conditions established in Sentence 3.2.7.5.(1).

Provision: 3.2.7.5.(6)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the fire separations that separate solid and liquid Class 5 oxidizing substances from the remainder of the building.

Provision: 3.2.7.5.(7)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the fire separations that separate reactive substances from the remainder of the building.

Provision: 3.2.7.5.(8)

Objective

OP1

Attributions

[F01-OP1.2]

Intent(s)

Intent 1. To limit the probability that dispensing or opening of Class 5.2 organic peroxides will lead to a fire or explosion involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F01-OS1.2]

Intent(s)

Intent 1. To limit the probability that dispensing or opening of Class 5.2 organic peroxides will lead to a fire or explosion involving the stored products, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 3.2.7.5.(9)

Objective

OS3

Attributions

[F81, F82-OS3.4]

Intent(s)

Intent 1. To limit the probability that protrusions of the wall surface will damage or puncture containers of dangerous goods, which could lead to the unwanted release of products, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that unsafe storage conditions or leaking containers will go unnoticed, which could lead to the unwanted release of products, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F81, F82-OS1.1] [F10-OS1.5]

Intent(s)

Intent 1. To limit the probability that protrusions of the wall surface will damage or puncture containers of dangerous goods, which could lead to the unwanted release of products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that unsafe storage conditions or leaking containers will go unnoticed, which could lead to the unwanted release of products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that building occupants or emergency responders will be trapped in a dead-end aisle in a fire situation, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.6.(1)

Objective

OS3

Attributions

[F43-OS3.4]

Intent(s)

Intent 1. To limit the probability of mixing of, or contact between, incompatible dangerous goods, which could lead to an adverse reaction between the dangerous goods, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of mixing of, or contact between, incompatible dangerous goods, which could lead to an adverse reaction between the dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Provision: 3.2.7.6.(2)

Objective

OS3

Attributions

[F43-OS3.4]

Intent(s)

Intent 1. To limit the probability that improper storage practices will lead to an adverse reaction between the dangerous goods, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that improper storage practices will lead to an adverse reaction between the dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.6.(3)

Objective

OS1

Attributions

[F02-OS1.1, OS3.4]

Intent(s)

Intent 1. To limit the probability of:

- a fire of high intensity near the radioactive materials, or
- corrosive vapours produced by a fire involving corrosive substances near the radioactive materials.

This is to limit the probability of escape of radioactive materials, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.7.(1)

Objective

OS3

Attributions

[F80-OS3.4]

Intent(s)

Intent 1. To limit the probability that shelving, racking or piping systems will become excessively corroded or deteriorated, which could lead to the premature structural failure of such systems, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons.

Objective

OH5

Attributions

[F80-OH5]

Intent(s)

Intent 1. To limit the probability that shelving, racking or piping systems will become excessively corroded or deteriorated, which could lead to the premature structural failure of such systems, which could lead to the unwanted release of dangerous goods, which could lead to harm to the public.

Objective

OS1

Attributions

[F80-OS1.1]

Intent(s)

Intent 1. To limit the probability that shelving, racking or piping systems will become excessively corroded or deteriorated, which could lead to the premature structural failure of such systems, which could lead to the unwanted release of dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.7.8.(1)

Attributions

3.2.7.8.(1)(a)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the construction of floors in areas where dangerous goods are stored.

Attributions

3.2.7.8.(1)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that dangerous goods will come in contact with other materials, which could lead to an unstable reaction, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.7.8.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that oxidizers will come into contact with combustible materials, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 3.2.7.9.(1)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to other parts of the building, which could lead to damage to the building.

Intent 2. To direct Code users to Sentence 6.4.1.1.(1), Article 2.1.3.5., Article 2.1.3.6. and 6.6.1.1., and to caution that the extinguishing agent and method must be determined based on the hazardous properties of the specific dangerous goods to be protected.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to other parts of the building, which could lead to harm to persons.

Intent 2. To direct Code users to Sentence 6.4.1.1.(1), Article 2.1.3.5., Article 2.1.3.6. and Article 6.6.1.1., and to caution that the extinguishing agent and method must be determined based on the hazardous properties of the specific dangerous goods to be protected.

Provision: 3.2.7.9.(2)

Objective

OP1

Attributions

[F02, F03-OP1.2] [F01-OP1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 3.2.7.9.(1), which would otherwise require fire suppression systems, if certain measures are taken.

This is to limit the probability that:

- excessive quantities of the products will be involved in a fire, which could lead to an increase in fire severity, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building,
- incompatible dangerous goods will be mixed or come into contact with each other, which could lead to an adverse reaction between the dangerous goods, which could lead to a fire or explosion, which could lead to damage to the building, and
- a fire involving the dangerous goods will spread to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F03-OS1.2] [F01-OS1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 3.2.7.9.(1), which would otherwise require fire suppression systems, if certain measures are taken.

This is to limit the probability that:

- excessive quantities of the products will be involved in a fire, which could lead to an increase in fire severity, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons,
- incompatible dangerous goods will be mixed or come into contact with each other, which could lead to an adverse reaction between the dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons, and
- a fire involving the dangerous goods will spread to other parts of the building, which could lead to harm to persons.

Provision: 3.2.7.9.(3)

Intent(s)

Intent 1. To supersede the requirements of Sentence 3.2.7.9.(1), which would otherwise require fire suppression systems, if the storage is restricted to compressed gases that do not pose a fire or explosion hazard or are non-hazardous in a fire situation.

Provision: 3.2.7.10.(1)

Objective

OP1

Attributions

[F12, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that smoke and toxic gases will accumulate in a fire situation, which could lead to delays or inefficiencies in emergency response operations [e.g. poor visibility], which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that smoke will accumulate in a fire situation, which could lead to the spread of smoke to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F12, F02-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that smoke and toxic gases will accumulate in a fire situation, which could lead to delays or inefficiencies in emergency response operations [e.g. poor visibility], which could

Intent Statements: NFC 2010

lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that smoke and toxic gases will accumulate in a fire situation, which could lead to delays in egress by emergency responders [e.g. poor visibility], which could lead to harm to emergency responders.

Provision: 3.2.7.11.(1)

Intent(s)

Intent 1. To expand the application of the spill control measures described in Subsection 4.1.6. to dangerous goods, which would otherwise apply only to flammable and combustible liquids.

Provision: 3.2.7.11.(2)

Objective

OS3

Attributions

3.2.7.11.(2)(a) [F43-OS3.4]

Intent(s)

Intent 1. To limit the probability that materials or liquids used in cleanups will have an adverse reaction with the escaped dangerous goods, which could lead to harm to persons, including emergency responders.

Intent 2. To remove the obligation to use absorbent materials conforming to Sentence 4.1.6.3.(3) [as implied by the general reference to Subsection 4.1.6. in Sentence 3.2.7.11.(1)] for the cleanup of dangerous goods other than flammable and combustible liquids.

Objective

OS1

Attributions

3.2.7.11.(2)(a) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that materials or liquids used in cleanups will have an adverse reaction with the escaped dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To remove the obligation to use absorbent materials conforming to Sentence 4.1.6.3.(3) [as implied by the general reference to Subsection 4.1.6. in Sentence 3.2.7.11.(1)] for the cleanup of dangerous goods other than flammable and combustible liquids.

Attributions

3.2.7.11.(2)(b)

Intent(s)

Intent 1. To direct Code users to Sentence 4.1.6.3.(3) for requirements pertaining to disposal.

Provision: 3.2.7.12.(1)

Intent(s)

Intent 1. To direct Code users to Section 2.5. for requirements pertaining to fire department access to buildings.

Provision: 3.2.7.12.(2)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To supersede the requirement in Sentence 3.2.7.12.(1), which references Section 2.5. [specifically Sentence 2.5.1.1.(1)] which would otherwise permit a single building access point, if the area of product storage exceeds a certain limit, on the basis that the increased area of product storage imposes a higher fire hazard and warrants a least two building access points.

This is to limit the probability that emergency response operations will be delayed or inefficient, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To supersede the requirement in Sentence 3.2.7.12.(1), which references Section 2.5. [specifically Sentence 2.5.1.1.(1)] which would otherwise permit a single building access point, if the area of product storage exceeds a certain limit, on the basis that the increased area of product storage imposes a higher fire hazard and warrants a least two building access points.

This is to limit the probability that emergency response operations will be delayed or inefficient, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.12.(3)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or inefficient, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or inefficient, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.13.(1)

Objective

OS3

Attributions

[F12, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or inefficient, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F12-OS1.1, OS1.2] [F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or inefficient, which could lead to a fire or explosion or the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.14.(1)

Objective

OS3

Attributions

[F12, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or inefficient, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F12-OS1.1, OS1.2] [F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or inefficient, which could lead to a fire or explosion or the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.14.(2)

Objective

OS3

Attributions

[F12-OS3.4]

Intent(s)

Intent 1. To relax the obligation in Sentence 3.2.7.14.(1) for placards to conform to the “Transportation of Dangerous Goods Regulations,” and permit dangerous goods to be identified by showing only their UN PIN on the placards, if the storage consists of a single product.

This is to limit the probability that emergency response operations will be delayed or inefficient, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To relax the obligation in Sentence 3.2.7.14.(1) for placards to conform to the Transportation of Dangerous Goods Regulations, and permit dangerous goods to be identified by showing only their UN PIN on the placards, if the storage consists of a single product.

This is to limit the probability that emergency response operations will be delayed or inefficient, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.14.(3)

Objective

OS3

Attributions

[F12-OS3.4]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To clarify the requirement in Sentence 3.2.7.14.(1) for placards to conform to the “Transportation of Dangerous Goods Regulations” and to require that dangerous goods be identified by also showing their individual Transportation of Dangerous Goods Class and Division number on the placards, where storage consists of multiple products within the same class.

This is to limit the probability that emergency response operations will be delayed or inefficient, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To clarify the requirement in Sentence 3.2.7.14.(1) for placards to conform to the “Transportation of Dangerous Goods Regulations” and to require that dangerous goods be identified by also showing their individual Transportation of Dangerous Goods Class and Division number on the placards, where storage consists of multiple products within the same class.

This is to limit the probability that emergency response operations will be delayed or inefficient, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.14.(4)

Objective

OS3

Attributions

[F12-OS3.4]

Intent(s)

Intent 1. To offer an alternate solution, i.e. the “Transportation of Dangerous Goods Regulations” “DANGER” symbol, to the requirement in Sentences 3.2.7.14.(1) and 3.2.7.14.(3) for placards to show the individual Transportation of Dangerous Goods Class and Division numbers, where storage consists of more than one class.

This is to limit the probability that emergency response operations will be delayed or inefficient, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To offer an alternate solution, i.e. the “Transportation of Dangerous Goods Regulations” “DANGER” symbol, to the requirement in Sentences 3.2.7.14.(1) and 3.2.7.14.(3) for placards to show the individual Transportation of Dangerous Goods Class and Division numbers, where storage consists of more than one class.

This is to limit the probability that emergency response operations will be delayed or inefficient, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.14.(5)

Intent(s)

Intent 1. To direct Code users to Article 3.2.2.5.

Provision: 3.2.7.15.(1)

Objective

OS1

Attributions

3.2.7.15.(1)(c) [F12-OS1.1, OS1.2] [F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or inefficient, which could lead to a fire or explosion or the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

3.2.7.15.(1)(b) [F12-OS1.1, OS1.2] [F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or inefficient, which could lead to a fire or explosion or the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Objective

OS3

Attributions

3.2.7.15.(1)(b) [F12, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or inefficient, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Objective

OS3

Attributions

3.2.7.15.(1)(c) [F12-OS3.4]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or inefficient, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Attributions

3.2.7.15.(1)(a)

Intent(s)

Intent 1. To state the application of Sentence 3.2.7.15.(2).

Provision: 3.2.7.15.(2)

Objective

OS3

Attributions

[F81-OS3.4]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.15.(3)

Objective

OS3

Attributions

[F81, F12-OS3.4]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F81, F12-OS1.1]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, accidental mixing or mishandling of products, or inappropriate actions by personnel, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.2.7.16.(1)

Objective

OH5

Attributions

[F34-OH5]

Intent(s)

Intent 1. To limit the probability that the actions of unauthorized persons will lead to the unwanted release of dangerous goods, which could lead to harm to the public.

Objective

OS3

Attributions

[F34-OS3.4]

Intent(s)

Intent 1. To limit the probability that the actions of unauthorized persons will lead to the unwanted release or spread of dangerous goods, which could lead to harm to persons.

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that the actions of unauthorized persons will lead to the unwanted release of dangerous goods or a fire hazard, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.7.17.(1)

Objective

OS1

Attributions

[F03-OS1.2] [F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that a fire involving the combustible products will spread to and involve the dangerous goods, which could lead to harm to persons.

Intent 2. To limit the probability of mixing of, or contact between, dangerous goods and other products that are incompatible with dangerous goods, which could lead to an adverse reaction between the dangerous goods and the other products, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.7.18.(1)

Intent(s)

Intent 1. To state the application of Article 3.2.7.18.

Provision: 3.2.7.18.(2)

Objective

OS1

Attributions

[F03-OS1.2] [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the oxidizing substances will spread to and involve the combustible material, which could lead to harm to persons.

Intent 2. To limit the probability of mixing of, or contact between, oxidizing substances and combustible material that is incompatible with the oxidizing substances, which could lead to an adverse reaction between the oxidizing substances and the combustible material, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.7.18.(3)

Objective

OS1

Attributions

[F03-OS1.2] [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the oxidizing substances will spread to and involve the dangerous goods, which could lead to harm to persons.

Intent 2. To limit the probability of mixing of, or contact between, oxidizing substances and dangerous goods that are incompatible with oxidizing substances, which could lead to an adverse reaction between the oxidizing substances and the dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.8.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.2.8.

Provision: 3.2.8.2.(1)

Attributions

3.2.8.2.(1)(a)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the location of rooms used for the storage of cylinders of Class 2.1 flammable gases.

Objective

OS1

Attributions

3.2.8.2.(1)(d) [F02-OS1.3]

Intent(s)

Intent 1. To limit the probability that an explosion in the room will lead to critical structural or mechanical damage to the room or the building, which could lead to harm to persons in other parts of the building.

Attributions

3.2.8.2.(1)(e)

Intent(s)

Intent 1. To expand the application of Subsection 4.1.7.--which would otherwise apply only to flammable and combustible liquids--to flammable gases.

Objective

OS1

Attributions

3.2.8.2.(1)(f) [F01-OS1.1]

Intent(s)

Intent 1. To supersede the provision in Sentence 3.2.7.2.(1), which would otherwise permit heating appliances if they are installed in a manner that does not create a fire or explosion hazard, and specifically prohibit their presence, on the basis of the increased hazard imposed by the storage of Class 2.1 flammable gases.

This is to limit the probability that gases will be ignited in the event of a gas leak in the storage room, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS1

Attributions

3.2.8.2.(1)(b) [F12-OS1.2] [F01-OS1.1] [F02-OS1.3]

Intent(s)

Intent 1. To facilitate the construction of the following safety features for the gas storage room:

- firefighter access from the outside, as required by Clause 3.2.8.2.(1)(c),
- explosion venting to the outside, as required by Clause 3.2.8.2.(1)(d), and
- exhaust ventilation to the outside, as required by Clause 3.2.8.2.(1)(e).

This is to limit the probability that:

Intent Statements: NFC 2010

- emergency response operations will be delayed or inefficient, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders,
- gases will accumulate, which could lead to their ignition from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons, and
- an explosion in the room will cause critical damage [structural or mechanical] to the room or the building, which could lead to harm to persons in other parts of the building.

Objective

OS1

Attributions

3.2.8.2.(1)(g) [F01, F02-OS1.1]

Intent(s)

Intent 1. To limit the probability that other uses of the storage room will introduce ignition sources near the gas cylinders or add to the combustible loading in the room, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To supersede the separation requirements stated in Sentences 3.2.7.6.(1) and 3.2.7.17.(1) and prohibit the storage of Class 2.1 flammable gases with gases other than compatible Class 2 gases in the same room.

Attributions

3.2.8.2.(1)(c)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to access from the exterior of the building into rooms used for the storage of cylinders of Class 2.1 flammable gases and closures leading to the interior of the building from rooms used for the storage of cylinders of Class 2.1 flammable gases.

Objective

OP1

Attributions

3.2.8.2.(1)(b) [F02-OP1.3]

Intent(s)

Intent 1. To facilitate the construction of explosion venting, as required by Clause 3.2.8.2.(1)(d), for the gas storage room.

This is to limit the probability that an explosion in the room will cause critical damage [structural or mechanical] to the room or the building, which could lead to damage to the building.

Provision: 3.2.8.2.(2)

Objective

OS1

Attributions

3.2.8.2.(2)(a) [F01-OS1.1]

Intent(s)

Intent 1. To supersede the requirement in Sentence 3.2.8.2.(1), which would otherwise require that Class 2.1 flammable, lighter-than-air gases be stored in a dedicated room, and allow their storage in the open in unsprinklered buildings of combustible construction, if the aggregate capacity of expanded gas per fire compartment outside of the room is limited.

This is to limit the probability that gases will accumulate in sufficient quantity to form an ignitable mixture at floor level or in low areas, which could lead to the ignition of the gases from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

3.2.8.2.(2)(b) [F01-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To supersede the requirement in Sentence 3.2.8.2.(1), which would otherwise require that Class 2.1 flammable, lighter-than-air gases be stored in a dedicated room, and allow their storage in the open, if the aggregate capacity of expanded gas per fire compartment outside of the room is limited.

This is to limit the probability that:

- [limitation on aggregate capacity] gases will accumulate in sufficient quantity to form an ignitable mixture at floor level or in low areas, which could lead to the ignition of the gases from a nearby ignition source, which could lead to harm to persons, and
- [sprinkler and noncombustible construction requirements] a fire in the building will spread and involve the gas cylinders, which could lead to the further spread of fire or an explosion, which could lead to harm to persons.

Provision: 3.2.8.2.(3)

Objective

OS1

Attributions

[F01, F02, F03, F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that liquefied petroleum gases will cause or be involved in a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.2.8.3.(1)

Attributions

3.2.8.3.(1)(a)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the separation of rooms used for the indoor storage of cylinders of Class 2.3 toxic or corrosive gases or Class 2.2 (5.1) oxidizing gases from the remainder of the building.

Intent Statements: NFC 2010

Objective

OS1

Attributions

3.2.8.3.(1)(d) [F44-OS1.2, OS1.5, OS1.1]

Intent(s)

Intent 1. To limit the probability that a gas leak in the storage room will migrate to other parts of the building, which could lead to:

- the further spread of fire or impairment of firefighting operations, which could lead to harm to persons, including emergency responders, and
- an adverse reaction with incompatible products, which could lead to a fire or explosion outside of the storage room, which could lead to harm to persons.

Objective

OS1

Attributions

3.2.8.3.(1)(b) [F12-OS1.2] [F01-OS1.1]

Intent(s)

Intent 1. To facilitate the construction of the following safety features for the gas storage room:

- firefighter access from the outside as required in Clause 3.2.8.3.(1)(c), and
- exhaust ventilation to the outside as required in Clause 3.2.8.3.(1)(d).

This is to limit the probability that:

- emergency response operations will be delayed or inefficient, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders, and
- gases will accumulate, which could lead to their ignition from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Attributions

3.2.8.3.(1)(c)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to access from the exterior of the building into rooms used for the storage of cylinders of Class 2.3 toxic or corrosive gases, or Class 2.2 (5.1) oxidizing gases and closures leading to the interior of the building from rooms used for the storage of cylinders of Class 2.3 toxic or corrosive gases, or Class 2.2 (5.1) oxidizing gases.

Provision: 3.2.8.3.(2)

Objective

OS1

Attributions

[F01, F02-OS1.1, OS1.2, OS1.5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that the combustible materials will be the source of ignition or will contribute to the spread of fire, which could lead to a fire involving the gas cylinders, which could lead to the unwanted release of gas, which could lead to the further spread of fire or impairment of firefighting operations, which could lead to harm to persons, including emergency responders.

Intent 2. To supersede the separation requirements stated in Sentences 3.2.7.6.(1) and 3.2.7.17.(1) and prohibit the combination of Class 2.3 poisonous, Class 2.4 corrosive or Class 2.2 (5.1) oxidizing gases with any combustible product or combustible dangerous goods in the same room.

Provision: 3.2.9.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.2.9.

Provision: 3.2.9.1.(2)

Intent(s)

Intent 1. To clarify that Subsection 3.2.3. also applies to the storage of Class 5.1 ammonium nitrate.

Provision: 3.2.9.2.(1)

Application

Application 1. Classification of *buildings* or parts of *buildings* used for the short- or long-term storage of Class 5.1 ammonium nitrate mixtures in quantities exceeding 1 000 kg, whether raw or waste materials, goods in process, or finished goods.

Exception: except as exempted in Sentence 3.2.1.1.(2), which applies to high *rack* storage warehouses with storage heights greater than 13 m.

Intent(s)

Intent 1. To clarify the classification of buildings used for the storage of ammonium nitrate.

Provision: 3.2.9.2.(2)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the height of buildings where ammonium nitrate is stored.

Provision: 3.2.9.2.(3)

Attributions

3.2.9.2.(3)(a)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the design of buildings where ammonium nitrate is stored, with respect to not having areas that could trap molten ammonium nitrate.

Intent Statements: NFC 2010

Attributions

3.2.9.2.(3)(b)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the ventilation in buildings where ammonium nitrate is stored.

Attributions

3.2.9.2.(3)(c)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the design of buildings where ammonium nitrate is stored, with respect to preventing contact between the ammonium nitrate and certain building materials.

Provision: 3.2.9.2.(4)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the flooring material being of noncombustible construction when used in areas where ammonium nitrate is stored.

Provision: 3.2.9.2.(5)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada 2010 to existing buildings used for the storage of ammonium nitrate, with regard to the incorporation of spatial separation and exposure protection.

Provision: 3.2.9.3.(1)

Objective

OS1

Attributions

[F01, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that ammonium nitrate will come into contact with materials with which it is incompatible, which could lead to the decomposition of the ammonium nitrate, which could lead to the ammonium nitrate becoming unstable or reactive, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.9.3.(2)

Objective

OS1

Attributions

[F01, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that ammonium nitrate will come into contact with materials with which it is incompatible, which could lead to the decomposition of the ammonium nitrate, which could lead to the ammonium nitrate becoming unstable or reactive, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.2.9.3.(3)

Objective

OS1

Attributions

[F03-OS1.2] [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the parked industrial trucks will spread to the storage area, which could lead to a fire or explosion involving the ammonium nitrate, which could lead to harm to persons.

Intent 2. To limit the probability that ammonium nitrate will come into contact with ignition sources [e.g. hot parts] from parked industrial trucks, which could lead to a fire or explosion involving the ammonium nitrate, which could lead to harm to persons.

Intent 3. To limit the probability of contact between ammonium nitrate decomposition gases and exhaust gases [e.g. carbon monoxide] from internal combustion engines, which could lead to the ammonium nitrate catching fire or exploding, which could lead to harm to persons.

Objective

OP1

Attributions

[F03-OP1.2] [F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the parked industrial trucks will spread to the storage area, which could lead to a fire or explosion involving the ammonium nitrate, which could lead to damage to the building.

Intent 2. To limit the probability that ammonium nitrate will come into contact with ignition sources [e.g. hot parts] from parked industrial trucks, which could lead to a fire or explosion involving the ammonium nitrate, which could lead to damage to the building.

Intent Statements: NFC 2010

Provision: 3.2.9.3.(4)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that ammonium nitrate will come into contact with incompatible materials, which could lead to the decomposition of the ammonium nitrate, which could lead to the ammonium nitrate becoming unstable or reactive, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that ammonium nitrate will come into contact with ignition sources [e.g. hot parts] from parked industrial trucks, which could lead to a fire or explosion involving the ammonium nitrate, which could lead to harm to persons.

Provision: 3.2.9.4.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that portable extinguishers will not be appropriate for the type of fire hazard present, which could lead to the extinguishers being ineffective in suppressing or controlling a fire, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Provision: 3.3.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 3.3.

Provision: 3.3.1.1.(2)

Attributions

3.3.1.1.(2)(e)

Intent(s)

Intent 1. To exempt certain storage situations from the application of Section 3.3., on the basis that such situations are covered in the National Building Code [mainly in Section 3.2. of the National Building Code because roof storage is considered to be an occupancy within the building and the National Building Code requires the roof to be treated as a floor assembly].

Attributions

3.3.1.1.(2)(g) 3.3.1.1.(2)(h)

Intent(s)

Intent 1. To exempt certain situations from the application of Section 3.3., on the basis that these situations are considered unique and should be dealt with by specific measures in conformance with good engineering practice.

Attributions

3.3.1.1.(2)(a) 3.3.1.1.(2)(b) 3.3.1.1.(2)(c) 3.3.1.1.(2)(d) 3.3.1.1.(2)(f)

Intent(s)

Intent 1. To exempt certain situations from the application of Section 3.3., on the basis that the situations present a low fire hazard and do not warrant specific fire safety measures.

Provision: 3.3.2.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.3.2.

Intent(s)

Intent 1. To clarify that, in cases of conflict, other provisions of the Code in the more specific Subsections 3.3.3., Subsection 3.3.4. and 3.3.5., and in Part 4, take precedence over the requirements of Subsection 3.3.2.

Provision: 3.3.2.2.(1)

Objective

OP3

Attributions

[F04-OP3.1]

Intent(s)

Intent 1. To limit the probability that the stored products will collapse prematurely in a fire situation, which could lead to the spread of fire across required aisles and clear spaces, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F04-OS1.5]

Intent(s)

Intent 1. To limit the probability that the stored products will collapse prematurely in a fire situation, which could lead to the spread of fire across required aisles and clear spaces, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Intent 2. To limit the probability that the stored products will collapse prematurely during firefighting operations, which could lead to the obstruction of access aisles, which could negatively affect the safe egress of emergency responders, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Provision: 3.3.2.3.(1)

Intent(s)

Intent 1. To direct Code users to Subsections 3.3.3. and 3.3.4. for size limits and clearances for individual storage areas.

Provision: 3.3.2.3.(2)

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the nearby vegetation will spread to the stored products, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.4.(1)

Objective

OS1

Attributions

[F06-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will lead to the failure of the power lines to supply power [power outage], which could lead to the failure of fire emergency systems of adjacent buildings to operate properly [disruption to water supply, emergency lighting, emergency communication systems, fire alarm and detection systems, etc.], which could lead to harm to persons.

Objective

OP3

Attributions

[F01, F06-OP3.1]

Intent(s)

Intent 1. To limit the probability that stored products will be ignited by sparks or arcing from electrical power lines, which could lead to the spread of fire beyond the outdoor storage area to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Intent 2. To limit the probability that a fire involving the stored products will lead to the failure of the power lines to supply power [power outage], which could lead to the failure of fire emergency systems to operate properly [disruption to water supply, emergency lighting, emergency communication systems, fire alarm and detection systems, etc.], which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.5.(1)

Objective

OP3

Attributions

[F12-OP3.1]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or ineffective, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Intent 2. To direct Code users to Subsection 3.2.5. of the National Building Code of Canada.

Provision: 3.3.2.5.(2)

Objective

OP3

Attributions

[F12-OP3.1]

Intent(s)

Intent 1. To supersede the requirement in Article 3.2.5.6. of the National Building Code, as referenced in Sentence 3.3.2.5.(1), and require that a choice of 2 connections to a public thoroughfare be provided if the storage site is of a large dimension.

This is to limit the probability that emergency response operations will be delayed or ineffective, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.6.(1)

Objective

OS3

Attributions

[F34-OS3.4]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will gain access to the storage area, which could lead to improper actions, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons.

Objective

OH5

Attributions

[F34-OH5]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will gain access to the storage area, which could lead to improper actions, which could lead to the unwanted release of dangerous goods, which could lead to harm to the public.

Intent Statements: NFC 2010

Objective

OP3

Attributions

[F34-OP3.1]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will gain access to the storage area, which could lead to a fire or explosion involving the products, which could lead to the spread of fire from the storage area to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.6.(2)

Objective

OP3

Attributions

[F12-OP3.1]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or ineffective, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.7.(1)

Objective

OP3

Attributions

3.3.2.7.(1)(b) [F12-OP3.1]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or ineffective, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Attributions

3.3.2.7.(1)(a)

Intent(s)

Intent 1. To direct Code users to Section 2.5. [specifically Article 2.5.1.5.].

Provision: 3.3.2.7.(2)

Objective

OP3

Attributions

3.3.2.7.(2)(b) [F12-OP3.1]

Intent(s)

Intent 1. To limit the probability that emergency response operations will be delayed or ineffective, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Attributions

3.3.2.7.(2)(a)

Intent(s)

Intent 1. To direct Code users to Part 6 [specifically Sentence 6.4.1.1.(1)].

Provision: 3.3.2.8.(1)

Objective

OP3

Attributions

[F01-OP3.1]

Intent(s)

Intent 1. To limit the probability that stored products will be ignited, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.8.(2)

Objective

OP3

Attributions

[F01-OP3.1]

Intent(s)

Intent 1. To limit the probability that the stored products will be ignited, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.8.(3)

Objective

OS1

Attributions

3.3.2.8.(3)(b) [F03-OS1.2] Applies to portion of Code text: "... located not less than 15 m from a *building* ..."

Intent(s)

Intent 1. To limit the probability that a fire originating in the burner will spread to adjacent buildings, which could lead to harm to persons in the buildings.

Objective

OP3

Attributions

[F01, F03-OP3.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that a fire originating in the burner will spread to the stored products and to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.9.(1)

Intent(s)

Intent 1. To state the application of Sentences 3.3.2.9.(2) and 3.3.2.9.(3).

Intent 2. To direct Code users to Section 2.8.

Provision: 3.3.2.9.(2)

Objective

OH5

Attributions

[F81, F12, F13-OH5]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices or accidental mixing or mishandling of products, which could lead to the unwanted release of dangerous goods or failure to control a product spill, which could lead to harm to the public.

Intent 2. To limit the probability of delayed or inappropriate emergency response operations in an emergency situation, which could lead to the unwanted release of dangerous goods or failure to control a product spill, which could lead to harm to the public.

Intent 3. To limit the probability that there will be a delay in notifying emergency responders of an emergency situation, which could lead to delays or inefficiencies in carrying out emergency response operations, which could lead to the unwanted release of dangerous goods or failure to control a product spill, which could lead to harm to the public.

Objective

OP3

Attributions

[F01, F81, F12, F02, F13-OP3.1]

Intent(s)

Intent 1. To limit the probability of fire hazards, unsafe storage practices or accidental mixing or mishandling of products, which could lead to a fire or explosion involving the outdoor storage, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Intent 2. To limit the probability of delayed or inappropriate emergency response operations in a fire situation, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Intent 3. To limit the probability that the size [fire load] of the product storage areas will not be controlled or limited, which could lead to manual fire suppression operations being ineffective in a fire situation involving the stored products, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Intent 4. To limit the probability that there will be a delay in notifying emergency responders of a fire situation, which could lead to delays or inefficiencies in carrying out fire emergency response operations, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Intent 5. To limit the probability that there will be a delay in locating and using firefighting equipment, which could lead to delays or inefficiencies in carrying out fire emergency response operations, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.9.(3)

Objective

OH5

Attributions

[F81, F12-OH5]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices or accidental mixing or mishandling of products, which could lead to the unwanted release of dangerous goods, which could lead to harm to the public.

Intent 2. To limit the probability of delayed or inappropriate emergency response operations in an emergency situation, which could lead to the unwanted release of dangerous goods, which could lead to harm to the public.

Objective

OP3

Attributions

[F81, F12-OP3.1]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices or accidental mixing or mishandling of products, which could lead to a fire or explosion involving the outdoor storage, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Intent 2. To limit the probability of delayed or inappropriate emergency response operations in a fire situation, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.10.(1)

Intent(s)

Intent 1. To direct Code users to Article 2.1.5.1. and Sentence 6.2.1.1.(1)

Provision: 3.3.2.10.(2)

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that a fire involving motorized vehicles will not be suppressed or controlled, which could lead to the spread of fire to the outdoor storage area and adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Intent 2. To state the application of Article 2.1.5.1. and to supersede the minimum rating specified in that Article.

Provision: 3.3.2.11.(1)

Objective

OS1

Attributions

[F04-OS1.2]

Intent(s)

Intent 1. To limit the probability that the stored products will collapse prematurely in a fire situation, which could lead to harm to persons, including emergency responders.

Objective

OS3

Attributions

[F20-OS3.4]

Intent(s)

Intent 1. To limit the probability that the stored products will collapse, which could lead to harm to persons.

Objective

OP3

Attributions

[F04, F12-OP3.1]

Intent(s)

Intent 1. To limit the probability that the stored products will collapse prematurely in a fire situation, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Intent 2. To limit the probability that emergency response operations will be delayed or ineffective, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.12.(1)

Intent(s)

Intent 1. To direct Code users to Section 4.6.

Provision: 3.3.2.12.(2)

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire originating in the fuel dispensing area will spread to the stored products and adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.13.(1)

Intent(s)

Intent 1. To expand the application of Subsection 4.1.6. so that it applies to waste oils and dangerous goods.

Provision: 3.3.2.14.(1)

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To exempt certain storage situations from the application of the spacing requirements stated in Subsections 3.3.3. and 3.3.4. as referenced in Sentence 3.3.2.3.(1), if a barrier is provided.

This is to limit the probability that a fire will spread from one individual storage area to another, which could lead to the spread of fire to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.2.15.(1)

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent 1. To exempt individual storage areas from the application of the height and size requirements stated in Section 3.3. [specifically Sentences 3.3.2.3.(1), Sentence 3.3.3.2.(1), Sentence 3.3.4.2.(1) and 3.3.4.2.(3)] if certain measures are taken.

This is to limit the probability that a fire involving the stored products will spread to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.3.1.(1)

Intent(s)

Intent Statements: NFC 2010

Intent 1. To state the application of Subsection 3.3.3.

Provision: 3.3.3.2.(1)

Objective

OS1

Attributions

[F04-OS1.5]

Intent(s)

Intent 1. To limit the probability that the stored products will collapse prematurely in a fire situation, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Objective

OP3

Attributions

[F02, F03-OP3.1] Applies to the maximum size (base area) and minimum clearances.

[F04-OP3.1] Applies to the maximum height.

Intent(s)

Intent 1. [For maximum size [base area] and minimum clearances] To limit the probability that a fire involving the outdoor stored products will spread to other individual storage areas and to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Intent 2. [For maximum height] To limit the probability that the stored products will collapse prematurely in a fire situation, which could lead to the spread of fire across required aisles and clear spaces to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.3.2.(2)

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to a building on the same property, which could lead to damage to the adjacent buildings.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to a building on the same property, which could lead to harm to persons in the building.

Provision: 3.3.3.2.(3)

Objective

OP3

Attributions

[F02, F03-OP3.1]

Intent(s)

Intent 1. To waive the clearance requirements in Sentence 3.3.3.2.(2) if the storage presents a low fire hazard because of the following:

- the type and arrangement of stored products do not present a high fire hazard [high fire load],
- a barrier is provided to limit the probability that fire will spread from the stored products to the building, and
- a sufficient clear space is provided to limit the probability that fire will spread from the stored products to the building where portions of the fire barrier in Clause 3.3.3.2.(3)(b) do not provide the required level of protection.

This is to limit the probability that a fire in the stored products will spread to a building on the same property, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To waive the clearance requirements in Sentence 3.3.3.2.(2) if the storage presents a low fire hazard to building occupants because of the following:

- the type and arrangement of stored products do not present a high fire hazard [high fire load],
- a barrier is provided to limit the probability that fire will spread from the stored products to the building, and
- a sufficient clear space is provided to limit the probability that fire will spread from the stored products to the building where portions of the fire barrier in Clause 3.3.3.2.(3)(b) do not provide the required level of protection.

This is to limit the probability that a fire involving the stored products will spread to a building on the same property, which could lead to harm to persons in the building.

Provision: 3.3.3.2.(4)

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent 1. To waive the clearance requirements in Sentence 3.3.3.2.(2) if the base size of the individual storage areas are restricted and the fire load is minimized.

This is to limit the probability that a fire involving the stored products will spread to a building on the same property, which could lead to damage to adjacent buildings or facilities.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To waive the clearance requirements in Sentence 3.3.3.2.(2) if the base size of the individual storage areas are restricted and the fire load is minimized.

This is to limit the probability that a fire involving the stored products will spread to a building on the same property, which could lead to harm to persons in the building.

Provision: 3.3.3.3.(1)

Objective

OP3

Attributions

[F06-OP3.1]

Intent(s)

Intent 1. To limit the probability that radiant heat energy from a tire fire will lead to delays and impediments to firefighting operations and fire department vehicle access to the storage area, which could lead to the spread of fire, which could lead to damage to adjacent buildings or facilities.

Provision: 3.3.4.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.3.4.

Intent(s)

Intent 1. To state the application of Subsection 3.3.4.

Intent(s)

Intent 1. To clarify that, in case of conflicts, the general provisions of Subsection 3.3.4. are intended to be superseded by more specific requirements elsewhere in the Code, namely in Part 4.

Intent(s)

Intent 1. To clarify that, in case of conflicts, the general provisions of Subsection 3.3.4. are intended to be superseded by more specific requirements elsewhere in the Code, namely in Part 4.

Provision: 3.3.4.1.(2)

Intent(s)

Intent 1. To state the application of Subsection 3.3.4.

Provision: 3.3.4.1.(3)

Intent(s)

Intent 1. To clarify the classification of dangerous goods and how they are covered in the National Fire Code.

Provision: 3.3.4.2.(1)

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to adjacent buildings, which could lead to harm to persons in the buildings.

Provision: 3.3.4.2.(2)

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to other individual storage areas and to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to other individual storage areas and to adjacent buildings, which could lead to harm to persons in the buildings.

Intent Statements: NFC 2010

Provision: 3.3.4.2.(3)

Objective

OS3

Attributions

[F20-OS3.4]

Intent(s)

Intent 1. To limit the probability that the stored products will collapse, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F20-OS1.1] [F04-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that the stored products will collapse, which could lead to the unwanted release of the products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that the stored products will collapse prematurely in a fire situation, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that the stored products will collapse prematurely in a fire situation, which could lead to the obstruction of aisles, which could lead to delays in the egress of emergency responders, which could lead to harm to emergency responders.

Provision: 3.3.4.3.(1)

Intent(s)

Intent 1. To expand the application of Article 3.2.7.6.

Provision: 3.3.4.3.(2)

Objective

OS3

Attributions

[F43-OS3.4]

Intent(s)

Intent 1. To remove the requirements stated in Table 3.2.7.6. for a fire separation between incompatible dangerous goods if a sufficient horizontal clear space is provided between such products.

This is to limit the probability of mixing of, or contact between, incompatible dangerous goods, which could lead to an adverse reaction between the dangerous goods, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To remove the requirements stated in Table 3.2.7.6. for a fire separation between incompatible dangerous goods if a sufficient horizontal clear space is provided between such products.

This is to limit the probability of mixing of, or contact between, incompatible dangerous goods, which could lead to an adverse reaction between the dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.3.4.4.(1)

Objective

OS1

Attributions

[F03, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the combustible products will spread to and involve the dangerous goods, which could lead to harm to persons.

Intent 2. To limit the probability of mixing of, or contact between, dangerous goods and other products that are incompatible with dangerous goods, which could lead to an adverse reaction between the dangerous goods and the other products, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 3.3.4.5.(1)

Intent(s)

Intent 1. To expand the application of Articles 3.2.7.13. and 3.2.7.14.

Provision: 3.3.4.6.(1)

Intent(s)

Intent 1. To expand the application of Article 3.2.7.15.

Provision: 3.3.4.7.(1)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that dangerous goods will adversely react with the effects of atmospheric conditions, which could lead to the unwanted release of the product, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.3.4.7.(2)

Objective

OS3

Attributions

[F43, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability that damaged or leaking containers will lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that mislabelled dangerous goods will come into contact with incompatible products, which could lead to the unwanted release of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that damaged or leaking containers will lead to the unwanted release of dangerous goods, which could lead to harm to the public.

Objective

OS1

Attributions

[F43, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that damaged or leaking containers will lead to the unwanted release of dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that mislabelled dangerous goods will come into contact with incompatible products, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 3.3.4.8.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability of mixing of, or contact between, incompatible dangerous goods, which could lead to an adverse reaction between the dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To supersede the separation requirements of Article 3.2.7.6. [as required in Article 3.3.4.3.] and require that the separation rules contained in the IMO document be used.

Objective

OS3

Attributions

[F43-OS3.4]

Intent(s)

Intent 1. To limit the probability of mixing of, or contact between, incompatible dangerous goods, which could lead to an adverse reaction between the dangerous goods, which could lead to harm to persons, including emergency responders.

Intent 2. To supersede the separation requirements of Article 3.2.7.6. [as required in Article 3.3.4.3.] and require that the separation rules contained in the IMO document be used.

Provision: 3.3.5.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 3.3.5.

Provision: 3.3.5.2.(1)

Objective

OS1

Attributions

3.3.5.2.(1)(a) [F80, F81, F02-OS1.1]

Intent(s)

Intent 1. To limit the probability that cylinders will prematurely deteriorate as a result of coming into contact with the ground, which could lead to the unwanted release of gas, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that cylinders will be mechanically damaged from falling over, which could lead to the unwanted release of gas, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability that a fire will spread to and involve the cylinders, which could lead to harm to persons.

Objective

OS1

Attributions

3.3.5.2.(1)(b) [F34-OS1.2]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will gain access to the storage area of dangerous goods classified as compressed gases, which could lead to unwanted actions, which could lead to the

Intent Statements: NFC 2010

unwanted release of flammable gases, which could lead to their ignition from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To state the application of Article 3.3.2.6.

Objective

OP1

Attributions

3.3.5.2.(1)(b) [F34-OP1.2]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will gain access to the storage area of dangerous goods classified as compressed gases, which could lead to unwanted actions, which could lead to the unwanted release of flammable gases, which could lead to their ignition from a nearby ignition source, which could lead to a fire or explosion, which could lead to damage to the building.

Intent 2. To state the application of Article 3.3.2.6.

Provision: 3.3.5.3.(1)

Objective

OS3

Attributions

[F44-OS3.4]

Intent(s)

Intent 1. To remove certain dangerous goods from the application of the 6 m clearance to a building required by Sentence 3.3.4.2.(2) and permit their outdoor storage adjacent to a building (zero distance), if a sufficient distance is kept between the gas cylinders and any building opening.

This is to limit the probability that gas will enter a building through an opening, which could lead to harm to persons.

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To remove certain dangerous goods from the application of the 6 m clearance to a building required by Sentence 3.3.4.2.(2) and permit their outdoor storage adjacent to a building (zero distance), if a sufficient distance is kept between the gas cylinders and any building opening.

This is to limit the probability that gas will enter a building through an opening, which could lead to or aggravate a fire or explosion inside the building, which could lead to harm to persons, including emergency responders.

Provision: 3.3.5.3.(2)

Objective

OS3

Attributions

[F44-OS3.4]

Intent(s)

Intent 1. To remove the requirement for a minimum distance between gas cylinders stored outdoors and a building opening, as stated in Sentence 3.3.5.3.(1), if the building opening is into a room conforming to Subsection 3.2.8.:

- used for no purpose other than the storage of compressed gases, thus presenting the same level of hazard as the outdoor cylinders, and
- separated from the remainder of the building [by a gas-tight separation] in a manner that will limit the probability of the migration of gases from the outdoor cylinders into the remainder of the building.

This is to limit the probability that gas will enter a building from the room, which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F44-OS1.1] [F03-OS1.2]

Intent(s)

Intent 1. To remove the requirement for a minimum distance between gas cylinders stored outdoors and a building opening, as stated in Sentence 3.3.5.3.(1), if the building opening is into a room conforming to Subsection 3.2.8.:

- used for no purpose other than the storage of compressed gases, thus presenting the same level of hazard as the outdoor cylinders,
- separated from the remainder of the building [by a gas-tight separation] in a manner that will limit the probability of the migration of gases from the outdoor cylinders into the remainder of the building, and
- separated from the remainder of the building [by a fire separation] in a manner that will limit the probability of a fire in the remainder of the building from spreading to or endangering the outdoor gas cylinders.

This is to limit the probability that gas will enter a building from the room, which could lead to a fire or explosion inside the building, which could lead to harm to persons, including emergency responders.

Provision: 4.1.1.1.(1)

Intent(s)

Intent 1. To state the application of Part 4.

Provision: 4.1.1.1.(2)

Intent(s)

Intent 1. To exempt certain industrial facilities and operations from the application of Part 4 because of:

- extraordinary and unique conditions, and
- the use of alternative measures that provide a level of safety equivalent to the level of safety prescribed in Part 4, as discussed in Appendix Note A-4.1.1.1.(2).

Intent Statements: NFC 2010

Provision: 4.1.1.1.(3)

Attributions

4.1.1.1.(3)(a), 4.1.1.1.(3)(b), 4.1.1.1.(3)(d)

Intent(s)

Intent 1. To exempt certain operations from the application of Part 4 because of their coverage by other regulations, standards or code documents, or elsewhere in the NFC.

Attributions

4.1.1.1.(3)(c)

Intent(s)

Intent 1. To exempt certain operations from the application of Part 4 because of the low fire hazard posed to the community due to isolation, separation, low occupant load or temporary use.

Provision: 4.1.1.1.(4)

Intent(s)

Intent 1. To direct Code users to Section 5.5.

Provision: 4.1.1.1.(5)

Intent(s)

Intent 1. To state the application of Section 4.1.

Provision: 4.1.2.1.(1)

Intent(s)

Intent 1. To direct Code users to Sentences 4.1.2.1.(2) and 4.1.2.1.(3).

Provision: 4.1.2.1.(2)

Intent(s)

Intent 1. To classify flammable liquids for the purposes of Part 4 and make such classifications consistent with NFPA 30.

Provision: 4.1.2.1.(3)

Intent(s)

Intent 1. To classify combustible liquids for the purposes of Part 4 and to make such classifications consistent with NFPA 30.

Intent 2. To limit the application of the NFC to Class I to IIIA liquids, therefore excluding Class IIIB liquids [having a flash point equal to or greater than 93.3°C] that are otherwise covered in NFPA 30.

Provision: 4.1.2.2.(1)

Intent(s)

Intent 1. To clarify that Class II and IIIA combustible liquids as described in Sentence 4.1.2.1.(3) shall be treated as Class I flammable liquids in Part 4 if heated at a temperature higher than their flash points.

Intent 2. To include Class IIIB liquids [having a flash point equal to or greater than 93.3°C and presently excluded from the NFC in Article 4.1.2.1.] in the scope of the NFC and to require that they be treated as Class I liquids in Part 4 if heated at a temperature higher than their flash points.

Provision: 4.1.2.3.(1)

Intent(s)

Intent 1. To clarify that used lubricating oil drained from motor vehicles that is not mixed with other lower flash point liquids is within the scope of Part 4, where it should be treated as a Class IIIA liquid without the need for testing to determine the flash point, as would otherwise be required in Subsection 4.1.3.

Provision: 4.1.2.3.(2)

Intent(s)

Intent 1. To supersede the flammability classification established in Sentence 4.1.2.3.(1) if used lubricating oil drained from motor vehicles is mixed with Class I or II liquids, because of the increased fire hazard created by the addition--to used oil--of liquids that are more flammable.

Intent 2. To clarify that the resulting mixture may be tested in conformance with Subsection 4.1.3., or alternatively, classified as a Class 1C liquid if Class I liquids are added or as a Class II liquid if only Class II liquids are added, so as to be able to determine the flash point of the mixture and classify it as required in Article 4.1.2.1.

Provision: 4.1.3.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that improper determination of flash points will lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.1.3.1.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that improper determination of flash points will lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 4.1.3.1.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that improper determination of flash points will lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.1.3.1.(4)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that improper determination of flash points will lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.1.4.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that electrical equipment will ignite vapours, which could lead to a fire or explosion, which could lead to harm to persons in buildings or outdoor areas, including emergency responders.

Provision: 4.1.4.1.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that electrical equipment will ignite vapours, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.1.5.1.(1)

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire will spread, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire will spread, which could lead to damage to the building or facility.

Provision: 4.1.5.2.(1)

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "... a device, operation or activity that produces open flames, sparks or heat shall not be permitted in an area described in Article 4.1.1.1."

Intent(s)

Intent 1. To limit the probability that ignition sources such as open flames, sparks or heat will ignite vapours, which could lead to harm to persons.

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "Unless controlled in a manner that will not create a fire or explosion hazard ..."

Intent(s)

Intent 1. To limit the probability of igniting vapours in a manner that could lead to harm to persons.

Intent 2. To remove the prohibition to have ignition sources if appropriate measures are taken.

Provision: 4.1.5.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that smoking material will ignite vapours, which could lead to harm to persons.

Provision: 4.1.5.4.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that combustible materials will be ignited [Class A fires], which could lead to the ignition of vapours, which could lead to harm persons.

Provision: 4.1.5.4.(2)

Intent(s)

Intent 1. To expand the application of Article 2.4.1.3.

Provision: 4.1.5.5.(1)

Intent(s)

Intent 1. To direct Code users to Section 2.8.

Provision: 4.1.5.5.(2)

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that delays or inappropriate actions in responding to fires or spill emergencies will lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Intent 2. To assist personnel of the authority having jurisdiction and other inspecting authorities in confirming conformance to fire code requirements concerning fire safety planning, and in becoming familiar with the building's fire safety measures.

Provision: 4.1.5.6.(1)

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that delays and a lack of access to all areas in and around buildings during firefighting operations will lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that delays and a lack of access to all areas in and around buildings during firefighting operations will lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Objective

OP3

Attributions

[F12-OP3.1]

Intent(s)

Intent 1. To limit the probability that delays and a lack of access to all areas in and around buildings during firefighting operations will lead to the spread of fire beyond the point of origin, which could lead to damage to adjacent buildings or facilities.

Provision: 4.1.5.7.(1)

Intent(s)

Intent 1. To direct Code users to Section 5.2.

Provision: 4.1.5.8.(1)

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will be released in low areas, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.5.8.(2)

Objective

OS1

Attributions

[F02, F43-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To remove the prohibition in Sentence 4.1.5.8.(1) to store Class I liquids in basements, if such liquids are:

- in such limited quantities that they do not pose a serious fire hazard, and
- in containers that will limit the probability of release and ignition of vapours and of spillage under normal conditions, and that will limit the probability of explosion of the container under fire conditions.

Intent 2. To override the choices offered in Clauses 4.2.3.1.(1)(a) to 4.2.3.1.(1)(e).

Provision: 4.1.6.1.(1)

Objective

OS1

Attributions

[F44-OS1.1, OS1.2] Applies to preventing spills from flowing outside the spill area.

Intent(s)

Intent 1. To limit the probability that the escape of flammable liquids, combustible liquids or dangerous goods will lead to a fire or the spread of fire outside the spill area, which could lead to harm to persons, including emergency responders, in other parts of the building, adjacent buildings or adjacent outdoor areas.

Objective

OP1

Attributions

[F44-OP1.1, OP1.2] Applies to preventing spills from flowing outside the spill area.

Intent(s)

Intent 1. To limit the probability that the escape of flammable liquids, combustible liquids or dangerous goods will lead to a fire or the spread of fire outside the spill area, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of flammable liquids, combustible liquids or dangerous goods, including that resulting from firefighting operations, will lead to harm to the public.

Attributions

4.1.6.1.(1)(b)

Intent(s)

Intent 1. To state the application of Article 4.1.6.2.

Provision: 4.1.6.1.(2)

Intent(s)

Intent 1. To direct Code users to Subsection 4.3.7. for the construction of barriers required by Clause 4.1.6.1.(1)(a).

Provision: 4.1.6.1.(3)

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To permit drainage to a sewer system, if certain conditions are met [i.e. the effluent is water-miscible and does not create a fire hazard].

This is to limit the probability that escaped liquids, including contaminated water used for firefighting, will lead to harm to the public.

Objective

OS1

Attributions

[F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To permit drainage to a sewer system, if certain conditions are met [i.e. the effluent is water-miscible and does not create a fire hazard].

This is to limit the probability that escaped liquids, including contaminated water used for firefighting, will create a fire or lead to the spread of fire outside of the spill area, which could lead to harm to persons, including emergency responders, in other parts of the building, adjacent buildings or adjacent outdoor areas.

Provision: 4.1.6.1.(4)

Objective

OP1

Attributions

[F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquids or dangerous goods, including contaminated water used for firefighting, will lead to a fire or to the spread of fire outside the spill area, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquids or dangerous goods, including contaminated water used for firefighting, will lead to a fire or to the spread of fire outside the spill area, which could lead

Intent Statements: NFC 2010

to harm to persons, including emergency responders, in other parts of the building, adjacent buildings or adjacent outdoor areas.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquids or dangerous goods, including contaminated water used for firefighting, will lead to harm to the public.

Provision: 4.1.6.2.(1)

Objective

OH5

Attributions

4.1.6.2.(1)(a) [F44-OH5] Applies to the termination of the drainage system where it will not create a risk to public health.

Intent(s)

Intent 1. To limit the probability that the escape of liquids or dangerous goods--including contaminated water used for firefighting--will lead to harm to the public.

Objective

OS1

Attributions

[F44-OS1.1, OS1.2, OS1.4]

Intent(s)

Intent 1. To limit the probability that the escape of liquids or dangerous goods will lead to a fire or to the spread of fire outside the spill area, which could lead to harm to persons, including emergency responders, in other parts of the building, adjacent buildings or adjacent outdoor areas.

Intent 2. To limit the probability that the escape of liquids or dangerous goods will hamper firefighting operations or automatic fire suppression systems, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquids or dangerous goods, including contaminated water used for firefighting, will lead to a fire or to the spread of fire outside the spill area, which could lead to damage to the building or facility.

Provision: 4.1.6.2.(2)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that flame will propagate beyond the trap or flashback from a burning spill of liquid or dangerous goods, which could lead to harm to persons.

Provision: 4.1.6.3.(1)

Objective

OS1

Attributions

[F82, F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquids or dangerous goods will lead to a fire or to the spread of fire, which could lead to harm to persons, including emergency responders, in other parts of the building, adjacent buildings or adjacent outdoor areas.

Objective

OP1

Attributions

[F82, F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquids or dangerous goods will lead to a fire or to the spread of fire, which could lead to damage to the building or facility.

Provision: 4.1.6.3.(2)

Objective

OP1

Attributions

[F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid or dangerous goods will lead to a fire or to the spread of fire, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F44-OS1.1, OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that the escape of liquid or dangerous goods will lead to a fire or to the spread of fire, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid or dangerous goods will lead to harm to the public.

Provision: 4.1.6.3.(3)

Objective

OS1

Attributions

4.1.6.3.(3)(a) [F01, F02-OS1.1]

4.1.6.3.(3)(b) [F02-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that absorbent used to clean up the spilled liquid will be ignited, which could lead to harm to persons.

Intent 2. To limit the probability that absorbent used to clean up the spilled liquid will lead to a fire or to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

4.1.6.3.(3)(a) [F44-OP1.1, OP1.2]

4.1.6.3.(3)(b) [F02-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquids or dangerous goods will lead to a fire or to the spread of fire, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the absorbent used to clean up the spilled liquid will lead to a fire or to the spread of fire, which could lead to damage to the building or facility.

Provision: 4.1.7.1.(1)

Objective

OS1

Attributions

[F01-OS1.1] Applies to conformance to the appropriate provincial or territorial legislation.

Intent(s)

Intent 1. To limit the probability that vapours will accumulate, which could lead to their ignition from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "... shall conform ... to this Part, and the NBC."

Intent(s)

Intent 1. To limit the probability that vapours will accumulate, which could lead to their ignition from a nearby ignition source, which could lead to harm to persons.

Intent 2. To require upgrading of ventilation measures in existing buildings to the standards for new buildings in the NBC and NFC Subsection 4.1.7.

Provision: 4.1.7.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours will accumulate, which could lead to their ignition from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.7.2.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To exempt certain storage from the application of Clause 4.1.7.2.(1)(b) if certain conditions are met. This is to limit the probability that vapour will be released, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.7.2.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will accumulate and be subsequently ignited from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 4.1.7.2.(4)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will accumulate and be subsequently ignited from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that vapour will accumulate and be subsequently ignited from a nearby ignition source, which could lead to damage to building or facility due to fire.

Provision: 4.1.7.2.(5)

Objective

OS1

Attributions

4.1.7.2.(5)(a) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will accumulate and be subsequently ignited from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.1.7.2.(5)(b) [F11-OS1.1]

Intent(s)

Intent 1. To limit the probability of persons not being alerted to the buildup of vapour, which could lead to a delay in taking appropriate action, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.1.7.2.(5)(c) [F01, F02-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that sparks or heat generated by the ventilation system will ignite vapours, particles or deposits, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that combustible construction will increase the severity of a fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

4.1.7.2.(5)(c) [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that combustible construction will increase the severity of a fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building or facility.

Provision: 4.1.7.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that flammable vapour accumulation at floor level does not exceed the concentration of the lower explosive limit, which could lead to ignition from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.7.3.(2)

Intent(s)

Intent 1. To state the application of Sentences 4.1.7.3.(3) and (4).

Provision: 4.1.7.3.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will accumulate and be subsequently ignited from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.7.3.(4)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that vapour will accumulate and be subsequently ignited from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.7.4.(1)

Objective

OS1

Attributions

4.1.7.4.(1)(a) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will be returned into the building through building openings located near exhaust air discharge points, which could lead to the accumulation and subsequent ignition of vapours by a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.1.7.4.(1)(b) [F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving vapour will spread outside the room or space and into building openings facing the exhaust air discharge points, which could lead to damage to the building.

Objective

OP3

Attributions

4.1.7.4.(1)(b) [F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire involving vapour will spread outside the room or space and into adjacent building openings facing the exhaust air discharge points, which could lead to damage to the adjacent buildings.

Objective

OS1

Attributions

4.1.7.4.(1)(b) [F01-OS1.1] [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that discharged vapour will be ignited by an ignition source outside the room or space, which could lead to harm to persons.

Intent 2. To limit the probability that a fire involving vapours will spread outside the room or space and into building openings facing the exhaust air discharge points, which could lead to harm to persons.

Provision: 4.1.7.5.(3)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that the suction effect of the mechanical ventilation system will lead to a fire outside the room or space being drawn inside the room or space through the make-up air inlets, which could lead to the spread of fire into the room or space, which could lead to harm to persons.

Intent 2. To limit the probability that a fire inside the room or space will spread through the make-up air inlets to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that the suction effect of the mechanical ventilation system will lead to a fire outside the room or space being drawn inside the room or space through the make-up air inlets, which could lead to the spread of fire into the room or space, which could lead to damage to the building.

Intent 2. To limit the probability that a fire inside the room or space will spread through the make-up air inlets to other parts of the building, which could lead to damage to the building.

Provision: 4.1.7.5.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will be returned into the room or space through make-up air inlets located near exhaust air outlets, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.7.5.(2)

Objective

OS1

Attributions

[F01, F44-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that vapour will migrate outside the room or space through make-up air inlets located in an interior wall, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.7.6.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To remove the obligation, in Sentences 4.1.7.4.(1) and 5.4.5.2.(1), for exhaust air to be discharged outside the building and to permit its recirculation inside the building if a fail-safe system is provided. This is to limit the probability that vapour will accumulate, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.1.7.6.(1)(a), 4.1.7.6.(1)(b), 4.1.7.6.(1)(b)(i) [F11, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of persons not being alerted to the buildup of vapour, which could lead to a delay in taking appropriate action, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.7.7.(1)

Objective

OS1

Attributions

[F01, F44-OS1.1, OS1.2] [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that vapour-either in the room or space or while being exhausted from the room or space-will come in contact with ignition sources within or conveyed by ventilation systems serving other areas, which could lead to the ignition of the vapour, which could lead to harm to persons.

Intent 2. To limit the probability that vapour will migrate through the ventilation system to other areas of the building, which could lead to the accumulation and subsequent ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To limit the probability that fire originating in the room or space will spread to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F44-OP1.1, OP1.2] [F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that vapour-either in the room or space or while being exhausted from the room or space-will come in contact with ignition sources within or conveyed by ventilation systems serving other areas, which could lead to the ignition of the vapour, which could lead to damage to the building.

Intent 2. To limit the probability that vapour will migrate through the ventilation system to other areas of the building, which could lead to the accumulation and subsequent ignition of the vapour from a nearby ignition source, which could lead to damage to the building.

Intent 3. To limit the probability that fire originating in the room or space will spread to other parts of the building, which could lead to damage to the building.

Provision: 4.1.7.8.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that a reduction in the exhaust capacity of the ventilation system will lead to the accumulation of vapour, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.8.1.(1)

Intent(s)

Intent 1. To direct Code users to Subsections 4.2.3. and 4.3.1.

Provision: 4.1.8.1.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will be released, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that liquid will escape, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.8.1.(3)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that liquid will escape, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.1.8.2.(1)

Objective

OS1

Attributions

4.1.8.2.(1)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static electric charges will build up, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static electric charges will build up, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Provision: 4.1.8.2.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the free-fall or splashing of liquid as it enters the tank will lead to the buildup of static electric charges, which could lead to the ignition of vapour, which could lead to harm to persons.

Provision: 4.1.8.2.(3)

Attributions

4.1.8.2.(3)(a)

Intent(s)

Intent 1. To remove from the application of Sentence 4.1.8.2.(2) cases where the conditions in the vapour space are such that they limit the probability of the ignition of vapour.

Attributions

4.1.8.2.(3)(b)

Intent(s)

Intent 1. To remove from the application of Sentence 4.1.8.2.(2) cases where the liquid being transferred has characteristics that limit the probability that static electricity will build up to levels that could lead to the ignition of vapour.

Provision: 4.1.8.2.(4)

Objective

OS1

Attributions

[F22-OS1.1]

Intent(s)

Intent 1. To limit the probability that vibrations due to inadequate support will lead to the breakage or failure of the fill pipe, which could lead to the 150 mm maximum clearance of the fill pipe from the bottom of the tank being exceeded, which could lead to free-fall or splashing of the liquid as it enters the tank, which could lead to the buildup of static charges, which could lead to the ignition of vapour, which could lead to harm to persons.

Provision: 4.1.8.3.(1)

Objective

OS1

Attributions

4.1.8.3.(1)(b) [F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will be released or liquid will escape, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.1.8.3.(1)(c) [F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will be released or liquid will escape, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Attributions

4.1.8.3.(1)(a)

Intent(s)

Intent 1. To direct Code users to Section 4.5.

Intent Statements: NFC 2010

Provision: 4.1.8.3.(2)

Objective

OS1

Attributions

[F20, F81, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that overpressurization will rupture the container or tank, or lead to its failure, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that using a gas that supports a combustion reaction, or that reacts with the liquid, will lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.1.8.4.(1)

Objective

OS1

Attributions

[F01, F43, F81-OS1.1]

Intent(s)

Intent 1. To remove the obligation for such containers to conform to the design and installation requirements for fixed storage tanks in Section 4.3. if adequate safeguards are provided, in order that these movable tanks will be used in such a way that they provide the same level of safety as do storage tanks.

Provision: 4.1.8.4.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will be released or liquid will escape, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.2.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 4.2.

Provision: 4.2.1.1.(2)

Intent(s)

Intent 1. To exclude from the application of Section 4.2. certain situations that:

- are covered more specifically in other parts of the NFC [Clauses (a) and (c)],

- are outside the scope of the NFC and are covered by other regulations [Clause (b)], or
- do not present a serious fire hazard [Clauses (d) and (e)].

Provision: 4.2.1.1.(3)

Intent(s)

Intent 1. To expand the application of Section 4.3.

Provision: 4.2.1.1.(4)

Intent(s)

Intent 1. To clarify how to treat, in Section 4.2., unstable liquids that are also flammable liquids or combustible liquids.

Provision: 4.2.1.1.(5)

Intent(s)

Intent 1. To clarify the term “container” in Part 4 as meaning not only small vessels for flammable liquids and combustible liquids [conforming to Clauses 4.2.3.1.(1)(a) to 4.2.3.1.(1)(d)] having a capacity not greater than 230 L, but also portable tanks [conforming to Clause 4.2.3.1.(1)(e)] having an individual capacity of not more than 2 500 L.

Provision: 4.2.2.1.(1)

Objective

OS1

Attributions

[F10, F12, F05, F06-OS1.5] Applies to storage in or adjacent to *exits* or principal routes that provide *access to exits*.

Intent(s)

Intent 1. To limit the probability that the storage of liquids in or adjacent to egress routes will lead to obstruction or impairment of the means of egress from floor areas or buildings, which could lead to a delay in evacuation, which could lead to harm to persons.

Intent 2. To limit the probability of obstruction or impairment to firefighting operations within buildings, which could lead to a delay in rescue operations, which could lead to harm to persons.

Objective

OS1

Attributions

[F03-OS1.2] Applies to storage near elevators.

Intent(s)

Intent 1. To limit the probability that the involvement of flammable liquids, combustible liquids or unstable liquids in a fire will lead to smoke, heat and flame travel to other floor areas in the building by way of the elevator shafts, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 4.2.2.2.(1)

Objective

OS1

Attributions

[F20-OS1.1, OS1.2] [F04-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability of the premature collapse of stored products, which could lead to the release of liquid and vapours, which could lead to a fire hazard, which could lead to harm to persons.

Intent 2. To limit the probability of the premature collapse of stored products in a fire situation, which could lead to the spread of fire across required aisles and clear spaces, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability of the premature collapse of stored products during firefighting operations, which could lead to the obstruction of access aisles, which could negatively affect the safe egress of emergency responders, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F20-OH5]

Intent(s)

Intent 1. To limit the probability of the premature collapse of stored products, which could lead to the release of liquid and vapours, which could lead to harm to the public.

Objective

OP1

Attributions

[F04-OP1.2]

Intent(s)

Intent 1. To limit the probability of the premature collapse of stored products in a fire situation, which could lead to the spread of fire across required aisles and clear spaces, which could lead to damage to the building or facility.

Provision: 4.2.2.3.(1)

Intent(s)

Intent 1. To direct Code users to Sections 3.2. and 3.3. and clarify that the separation requirements in Sections 3.2. and 3.3. also apply to flammable liquids and combustible liquids in containers that are otherwise covered in Section 4.2.

Provision: 4.2.2.3.(2)

Intent(s)

Intent 1. To clarify that the separation requirements of Article 3.2.7.6. also apply to Class IIIA liquids in containers.

Provision: 4.2.3.1.(1)

Objective

OH5

Attributions

[F20, F43, F80, F81-OH5]

Intent(s)

Intent 1. To limit the probability of the unwanted release of liquid or vapour, which could lead to harm to the public.

Objective

OS1

Attributions

4.2.3.1.(1)(d) [F01, F43, F04-OS1.1]

Intent(s)

Intent 1. To limit the probability of the release and ignition of vapours and the escape of liquids under normal conditions, and the rupture and explosion of the container under fire conditions, which could lead to harm to persons.

Objective

OS1

Attributions

[F20, F43, F80, F81, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the unwanted release of liquid or vapour, which could lead to a fire or explosion hazard, which could lead to harm to persons.

Provision: 4.2.3.2.(1)

Objective

OS1

Attributions

[F81-OS1.1] [F12-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, accidental mischief or mishandling of products, or inappropriate actions by personnel during an emergency situation, which could lead to a fire or explosion hazard, which could lead to harm to persons.

Intent 2. To limit the probability of delays or ineffectiveness in conducting firefighting or spill control operations, which could lead to a fire or explosion hazard or the spread of fire beyond the point of fire origin, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Provision: 4.2.3.2.(2)

Objective

OS1

Attributions

[F81-OS1.1] [F12-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability of unsafe storage practices, accidental mischief or mishandling of products, or inappropriate actions by personnel during an emergency situation, which could lead to a fire or explosion hazard, which could lead to harm to persons.

Intent 2. To limit the probability of delays or ineffectiveness in conducting firefighting or spill control operations, which could lead to a fire or explosion hazard or the spread of fire beyond the point of fire origin, which could lead to harm to persons, including emergency responders.

Intent 3. To waive the obligation to conform to Sentence 4.2.3.2.(1) if identification is provided in conformance with one of the overriding regulations prescribed in Sentence 4.2.3.2.(2).

Provision: 4.2.3.3.(1)

Intent(s)

Intent 1. To permit the use of containers that do not conform to Article 4.2.3.1. based on the limited size of the containers or the reactivity of the liquid with the containers.

Provision: 4.2.4.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 4.2.4.

Provision: 4.2.4.2.(1)

Intent(s)

Intent 1. To direct Code users to Sentences 4.2.4.2.(2) and 4.2.4.2.(3).

Provision: 4.2.4.2.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a large quantity of flammable liquids or combustible liquids will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a large quantity of flammable liquids or combustible liquids will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building or facility.

Provision: 4.2.4.2.(3)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a large quantity of liquid will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Intent 2. To clarify what quantity limits apply to a storage situation for which there would otherwise be no applicable requirement in Sentence 4.2.4.2.(2).

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a large quantity of liquid will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building.

Intent 2. To clarify what quantity limits apply to a storage situation for which there would otherwise be no applicable requirement in Sentence 4.2.4.2.(2).

Provision: 4.2.4.2.(4)

Objective

OS1

Attributions

4.2.4.2.(4)(b) [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability of the spread of smoke from a fire involving flammable liquids, combustible liquids or unstable liquids to occupied parts of the building, which could lead to harm to persons.

Intent Statements: NFC 2010

Intent 2. To override the [implied] permission in Subsection 4.2.9. for fire separations to have openings [protected with closures as per NBC].

Objective

OS1

Attributions

4.2.4.2.(4)(a) [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a large quantity of liquid will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Intent 2. To override the permission in Sentence 4.2.10.3.(1) to have 3 such cabinets per fire compartment.

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To override the quantity limits calculated in Sentences 4.2.4.2.(2) and 4.2.4.2.(3) and permit more liquids in a building if the liquids are stored in a manner that will limit the probability of their involvement in a fire occurring in the building.

This is to limit the probability of the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

4.2.4.2.(4)(a) [F02-OP1.2] Applies to storage in cabinets not exceeding the quantity permitted for one cabinet.

Intent(s)

Intent 1. To limit the probability that a large quantity of liquid will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building.

Intent 2. To override the permission in Sentence 4.2.10.3.(1) to have 3 such cabinets per fire compartment.

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To override the quantity limits calculated in Sentences 4.2.4.2.(2) and 4.2.4.2.(3) and permit more liquids in a building if the liquids are stored in a manner that will limit the probability of their involvement in a fire occurring in the building.

This is to limit the probability of the spread of fire, which could lead to damage to the building.

Intent(s)

Intent 1. To state the application of Subsections 4.2.9. and 4.2.10.

Provision: 4.2.4.3.(1)

Objective

OS1

Attributions

[F12-OS1.2] [F01-OS1.1]

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regards to the location of storage cabinets and storage rooms for flammable liquids, combustible liquids or unstable liquids.

Objective

OP1

Attributions

[F12-OP1.2] [F01-OP1.1]

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regards to the location of storage cabinets and storage rooms for flammable liquids, combustible liquids or unstable liquids.

Provision: 4.2.4.3.(2)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the location of storage rooms for flammable liquids, combustible liquids or unstable liquids.

Provision: 4.2.4.4.(1)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that flammable liquids, combustible liquids or unstable liquids will be involved in a fire, which could lead to the spread of fire along the building exterior and to other storeys through openings in the exterior walls [that are not designed to act as a fire separation against such a fire hazard], which could lead to harm to persons.

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that flammable liquids, combustible liquids or unstable liquids will be involved in a fire, which could lead to the spread of fire along the building exterior and to other storeys

Intent Statements: NFC 2010

through openings in the exterior walls [that are not designed to act as a fire separation against such a fire hazard], which could lead to damage to the building.

Provision: 4.2.4.5.(1)

Objective

OS1

Attributions

[F02-OS1.2] Applies to portion of Code text: "Not more ... than 10 L shall be Class I liquids, are permitted to be stored in each *dwelling unit*."

Intent(s)

Intent 1. To limit the probability that a large quantity of liquid will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Intent 2. To remove basements in dwelling units from the application of the quantity limits in Sentence 4.1.5.8.(1).

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a large quantity of liquid will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Intent 2. To remove dwelling units from the application of the quantity limits in Article 4.2.4.2.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a large quantity of liquid will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building.

Intent 2. To remove dwelling units from the application of the quantity limits in Article 4.2.4.2.

Objective

OP1

Attributions

[F02-OP1.2] Applies to portion of Code text: "Not more ... than 10 L shall be Class I liquids, are permitted to be stored in each *dwelling unit*."

Intent(s)

Intent 1. To limit the probability that a large quantity of liquid will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building.

Intent 2. To remove basements in dwelling units from the application of the quantity limits in Sentence 4.1.5.8.(1).

Provision: 4.2.4.6.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a large quantity of liquid will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Intent 2. To remove attached garages or sheds from the application of the quantity limits in Article 4.2.4.2.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a large quantity of liquid will lead to an excessive fire load, which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building.

Intent 2. To remove attached garages or sheds from the application of the quantity limits in Article 4.2.4.2.

Provision: 4.2.5.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 4.2.5.

Provision: 4.2.5.2.(1)

Intent(s)

Intent 1. To direct Code users to Sentences 4.2.5.2.(2) to 4.2.5.2.(4).

Provision: 4.2.5.2.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability of an excessive amount of liquid [fire loading], which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability of an excessive amount of liquid [fire loading], which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building.

Provision: 4.2.5.2.(3)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability of an excessive amount of liquid [fire loading], which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability of an excessive amount of liquid [fire loading], which could lead to the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building.

Provision: 4.2.5.2.(4)

Intent(s)

Intent 1. To clarify the calculations in Sentences 4.2.5.2.(2) and 4.2.5.2.(3).

Provision: 4.2.5.2.(5)

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To override the quantity limits calculated in Sentences 4.2.5.2.(2) to 4.2.5.2.(4) and permit more liquids in a mercantile building if the liquids are stored in a manner that will limit the probability of their involvement in a fire.

This is to limit the probability of the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To override the quantity limits calculated in Sentences 4.2.5.2.(2) to 4.2.5.2.(4) and permit more liquids in a mercantile building if the liquids are stored in a manner that will limit the probability of their involvement in a fire.

This is to limit the probability of the spread of fire, which could lead to damage to the building.

Intent(s)

Intent 1. To expand the application of Clause 4.2.7.2.(1)(a) and Sentence 4.2.7.5.(1) [and all related requirements in Subsection 4.2.7.].

Provision: 4.2.5.3.(1)

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the unnecessary release of flammable vapours or the accidental escape of flammable liquids, which could lead to a fire or explosion hazard in the presence of an ignition source, which could lead to harm to persons.

Provision: 4.2.5.3.(2)

Objective

OS1

Attributions

[F20-OS1.1, OS1.2] [F04-OS1.5]

Intent(s)

Intent 1. To limit the probability of the premature collapse of stored products, which could lead to the release of liquid and vapours, which could lead to a fire hazard, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of the premature collapse of stored products during firefighting operations, which could lead to the obstruction of access aisles, which could lead to delays in the egress of persons or the movement of emergency responders.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F20-OH5]

Intent(s)

Intent 1. To limit the probability of the premature collapse of stored products, which could lead to the release of liquid and vapours, which could lead to harm to the public.

Objective

OP1

Attributions

[F04-OP1.2]

Intent(s)

Intent 1. To limit the probability of the premature collapse of stored products in a fire situation, which could lead to the spread of fire across required aisles and clear spaces, which could lead to damage to the building.

Provision: 4.2.5.3.(3)

Objective

OS1

Attributions

[F01, F43-OS1.2]

Intent(s)

Intent 1. To remove basements in mercantile occupancies from the prohibition in Sentence 4.1.5.8.(1) and permit the storage of controlled quantities of Class I liquids in such locations if the liquids are in sealed containers designed to limit the probability of the release of liquid or vapours.

Provision: 4.2.5.4.(1)

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the accidental release of liquid or vapours, which could accumulate to ignitable concentrations, which could lead to a fire or explosion, which could lead to harm to persons.

Intent(s)

Intent 1. To state the application of Subsection 4.2.9.

Provision: 4.2.5.4.(2)

Intent(s)

Intent 1. To exempt, from the application of Sentence 4.2.5.4.(1), paint-tinting operations involving paint containers of 25 L or less, on the basis that transfer operations involving such small quantities of product are deemed to not pose a significant threat of fire or explosion.

Provision: 4.2.6.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 4.2.6.

Provision: 4.2.6.2.(1)

Objective

OS1

Attributions

4.2.6.2.(1)(a) [F02-OS1.2] Applies to storage in cabinets not exceeding the quantity permitted for one cabinet.

Intent(s)

Intent 1. To override the permission in Sentence 4.2.10.3.(1) to have 3 such cabinets per fire compartment.

This is to limit flammable and combustible contents [fire loading] and limit the probability of the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Objective

OS1

Attributions

4.2.6.2.(1)(b) [F03-OS1.2]

Intent(s)

Intent 1. To override the [implied] permission in Subsection 4.2.9. for fire separations to have openings [protected with closures as per NBC].

This is to limit the probability of the spread of smoke from a fire involving flammable liquids, combustible liquids or unstable liquids to occupied parts of the building, which could lead to harm to persons.

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To override the quantity limits in Sentences 4.2.6.3.(1) and 4.2.6.3.(2) and permit more liquids in a building if the liquids are stored in a manner that will limit the probability of their involvement in a fire occurring in the building.

This is to limit the probability of the spread of fire, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F01, F43-OS1.1] Applies to portion of Code text: “Except as permitted in Article 4.2.6.3., *flammable liquids* and *combustible liquids* shall be kept in *closed containers* ...”

Intent(s)

Intent 1. To limit the probability of the release of flammable vapours or the accidental escape of liquids, which could lead to a fire or explosion hazard in the presence of an ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.2.6.2.(1)(a) [F02-OP1.2] Applies to storage in cabinets not exceeding the quantity permitted for one cabinet.

Intent(s)

Intent 1. To override the permission in Sentence 4.2.10.3.(1) to have 3 such cabinets per fire compartment. This is to limit flammable and combustible contents [fire loading] and limit the probability of the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building.

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To override the quantity limits in Sentences 4.2.6.3.(1) and 4.2.6.3.(2) and permit more liquids in a building if the liquids are stored in a manner that will limit the probability of their involvement in a fire occurring in the building.

This is to limit the probability of the spread of fire, which could lead to damage to the building.

Intent(s)

Intent 1. To state the application of Subsections 4.2.9. and 4.2.10.

Provision: 4.2.6.3.(1)

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To limit flammable and combustible contents [fire loading] in order to limit the probability of the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Intent 2. To remove the obligation in Sentence 4.2.6.2.(1) for liquids to be stored in cabinets or rooms if quantities are limited and storage is in a single room or fire compartment having at least a 45 min fire separation.

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To limit flammable and combustible contents [fire loading] in order to limit the probability of the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building.

Intent 2. To remove the obligation in Sentence 4.2.6.2.(1) for liquids to be stored in cabinets or rooms if quantities are limited and storage is in a single room or fire compartment having at least a 45 min fire separation.

Provision: 4.2.6.3.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To remove the automotive shops or industrial arts areas of educational facilities from the application of the quantity limits in Sentence 4.2.6.3.(1).

Intent 2. To limit flammable and combustible contents [fire loading] in order to limit the probability of the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To remove the automotive shops or industrial arts areas of educational facilities from the application of the quantity limits in Sentence 4.2.6.3.(1).

Intent 2. To limit flammable and combustible contents [fire loading] in order to limit the probability of the spread of a fire involving flammable liquids, combustible liquids or unstable liquids beyond the point of fire origin, which could lead to damage to the building.

Provision: 4.2.6.4.(1)

Objective

OS1

Attributions

[F04, F43, F01-OS1.1] [F02-OS1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To override the options offered in Clauses 4.2.3.1.(1)(a) to 4.2.3.1.(1)(e) and limit the choice of containers to those that:

- will limit the probability of the release and ignition of vapours and the escape of liquids under normal conditions, which could lead to rupture or explosion of the container under fire conditions, and
- have a limited capacity and thus do not create a serious fire hazard.

Intent(s)

Intent 1. To state the application of Clause 4.2.3.1.(1)(d).

Provision: 4.2.6.5.(1)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability of the spread of fire, which could lead to harm to persons.

Intent(s)

Intent 1. To direct Code users to Article 4.2.2.3.

Provision: 4.2.7.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 4.2.7.

Provision: 4.2.7.2.(1)

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To offer storage options that will limit the probability that a fire involving the stored products will spread beyond the point of fire origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To offer storage options that will limit the probability that a fire involving the stored products will spread beyond the point of fire origin, which could lead to damage to the building or facility.

Provision: 4.2.7.3.(1)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread beyond the point of fire origin, which could lead to harm to persons in other parts of the building, including emergency responders.

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that activities in other parts of the building will lead to a fire exposure hazard to the stored products, which could lead to damage to the building.

Provision: 4.2.7.4.(1)

Objective

OS1

Attributions

[F01, F02, F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that liquid handling operations will lead to a fire or explosion that could involve the entire storage area, which could lead to a very severe fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F02, F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that liquid handling operations will lead to a fire or explosion that could involve the entire storage area, which could lead to a very severe fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building or facility.

Intent(s)

Intent Statements: NFC 2010

Intent 1. To state the application of Subsection 4.2.9.

Provision: 4.2.7.4.(2)

Objective

OS1

Attributions

[F02, F01-OS1.2, OS1.1]

Intent(s)

Intent 1. To remove the requirement in Sentence 4.2.7.4.(1) for transfer and dispensing operations to be conducted in specially equipped and protected rooms [conforming to Subsection 4.2.9.] provided:

- the operations are conducted in a storage area of limited size, which would minimize the total fire load and thus not pose an undue hazard to other parts of the building if involved in a fire, and
- safety precautions are taken to limit the probability that such operations will lead to a fire or explosion.

Objective

OP1

Attributions

[F01, F02-OP1.1, OP1.2]

Intent(s)

Intent 1. To remove the requirement in Sentence 4.2.7.4.(1) for transfer and dispensing operations to be conducted in specially equipped and protected rooms [conforming to Subsection 4.2.9.] provided:

- the operations are conducted in a storage area of limited size, which would minimize the total fire load and thus not pose an undue hazard to other parts of the building if involved in a fire, and
- safety precautions are taken to limit the probability that such operations will lead to a fire or explosion.

Provision: 4.2.7.5.(1)

Objective

OS1

Attributions

[F03, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored liquids will spread beyond the area of fire origin, which could lead to harm to persons.

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the release of flammable vapour in low areas of a building where the vapour could accumulate to ignitable concentrations, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS1

Attributions

[F20-OS1.1, OS1.2] [F04-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability of the premature collapse of stored products, which could lead to the release of liquid and vapours, which could lead to a fire hazard, which could lead to harm to persons.

Intent 2. To limit the probability of the premature collapse of stored products in a fire situation, which could lead to the spread of fire across required aisles and clear spaces, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability of the premature collapse of stored products during firefighting operations, which could lead to the obstruction of access aisles, which could negatively affect the safe egress of emergency responders, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F04-OP1.2]

Intent(s)

Intent 1. To limit the probability of the premature collapse of stored products in a fire situation, which could lead to the spread of fire across required aisles and clear spaces, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F20-OH5]

Intent(s)

Intent 1. To limit the probability of the premature collapse of stored products, which could lead to the release of liquid and vapours, which could lead to harm to the public.

Objective

OP1

Attributions

[F03, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored liquids will spread beyond the storage area to other parts of the building, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.2.7.5.(2)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To waive the total quantity limits per fire compartment in Sentence 4.2.7.5.(1) [in Tables 4.2.7.5.-A and 4.2.7.5.-B.] and allow unlimited quantities to be stored in a storage area if the storage area is isolated in such a manner as to limit the probability of:

- the spread of a fire involving the stored liquids beyond the storage area to other buildings or parts of the building, and
- the involvement of stored products in a fire originating outside of the storage area.

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To waive the total quantity limits per fire compartment in Sentence 4.2.7.5.(1) [in Tables 4.2.7.5.-A and 4.2.7.5.-B.] and allow unlimited quantities to be stored in a storage area if the storage area is isolated in such a manner as to limit the probability of:

- the spread of a fire involving the stored liquids beyond the storage area to other buildings or parts of the building, and
- the involvement of stored products in a fire originating outside of the storage area.

Attributions

4.2.7.5.(2)(b)

Intent(s)

Intent 1. To clarify what quantity limits apply to a storage situation for which there would otherwise be no applicable requirement.

Intent 2. To state the allowable quantities per individual storage area for protected rack storage.

Provision: 4.2.7.5.(3)

Intent(s)

Intent 1. To clarify what quantity limits apply to a storage situation for which there would otherwise be no applicable requirement.

Provision: 4.2.7.5.(4)

Intent(s)

Intent 1. To clarify what quantity limits apply to a storage situation for which there would otherwise be no applicable requirement.

Provision: 4.2.7.6.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability of the spread of a fire in stored products to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.1]

Intent(s)

Intent 1. To limit the probability of the spread of a fire in stored products to other parts of the building, which could lead to damage to the building or facility.

Attributions

4.2.7.6.(1)(b)

Intent(s)

Intent 1. To direct Code users to Article 2.1.3.5. for the design and installation of automatic fire suppression systems.

Provision: 4.2.7.7.(1)

Objective

OS1

Attributions

[F04-OS1.3]

Intent(s)

Intent 1. To limit the probability that, in a fire situation, excessively high temperatures will lead to the failure of structural members, which could lead to the premature collapse of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F04-OP1.3]

Intent(s)

Intent 1. To limit the probability that, in a fire situation, excessively high temperatures will lead to the failure of structural members, which could lead to the premature collapse of the building, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.2.7.7.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that obstructions or obstacles will impede the distribution of water from sprinkler systems, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that obstructions or obstacles will impede the distribution of water from sprinkler systems, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 4.2.7.7.(3)

Objective

OS1

Attributions

[F81, F82-OS1.1] [F10-OS1.5]

Intent(s)

Intent 1. To limit the probability that protrusions of the wall surface will lead to damage or puncture of containers of liquids, which could lead to the release of product, which could lead to a fire or explosion hazard, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that unsafe storage conditions or leaking containers will remain unnoticed, which could lead to the release of product, which could lead to a fire or explosion hazard, which could lead to harm to persons, including emergency responders.

Intent 3. To limit the probability that persons will be trapped in a dead-end aisle in a fire emergency situation, which could lead to delays in evacuation or emergency response, which could lead to harm to persons, including emergency responders.

Provision: 4.2.7.8.(1)

Intent(s)

Intent 1. To direct Code users to Article 3.2.2.2.

Provision: 4.2.7.9.(1)

Intent(s)

Intent 1. To direct Code users to Article 4.2.2.3.

Provision: 4.2.7.10.(1)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the products will spread to the stored liquids, which could impede firefighting operations, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 4.2.7.11.(1)

Intent(s)

Intent 1. To direct Code users to Article 4.1.6.3.

Provision: 4.2.8.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 4.2.8.

Intent 2. To clarify that more specific requirements in other parts of the Code are intended to take precedence in the case of conflicts with the general provisions of this Subsection.

Provision: 4.2.8.2.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that excessive quantities of liquids will be involved in a fire, which could contribute to the spread of fire beyond the point of fire origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that excessive quantities of liquids will be involved in a fire, which could contribute to the spread of fire beyond the point of fire origin, which could lead to damage to the building.

Intent Statements: NFC 2010

Provision: 4.2.8.2.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To override the limits in Sentence 4.2.8.2.(1) and permit more liquids in a building if the liquid quantities are required for normal plant activity and the quantities are limited to a level not greater than the supply for one day of normal operation.

This is to limit the probability that excessive quantities of liquids will become involved in a fire occurring in the building, which could contribute to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To override the limits in Sentence 4.2.8.2.(1) and permit more liquids in a building if the liquid quantities are required for normal plant activity and the quantities are limited to a level not greater than the supply for one day of normal operation.

This is to limit the probability that excessive quantities of liquids will become involved in a fire occurring in the building, which could contribute to the spread of fire, which could lead to damage to the building.

Provision: 4.2.8.2.(3)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To override the limits in Sentence 4.2.8.2.(2) and permit more liquids in a building if the liquid quantities are required for normal plant activity and the quantities are stored in tanks.

This is to limit the probability that the liquids will become involved in a fire occurring in the building, which could contribute to the spread of fire, which could lead to harm persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To override the limits in Sentence 4.2.8.2.(2) and permit more liquids in a building if the liquid quantities are required for normal plant activity and the quantities are stored in tanks.

This is to limit the probability that the liquids will become involved in a fire occurring in the building, which could contribute to the spread of fire, which could lead to damage to the building.

Intent(s)

Intent 1. To direct Code users to Sentence 4.3.13.4.(2).

Provision: 4.2.8.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the ignition of flammable liquids or combustible liquids, which could lead to harm to persons.

Provision: 4.2.8.4.(1)

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To override the limits in Sentence 4.2.8.2.(1) and permit more liquids in a building if the liquids are stored in a manner that will limit the probability of the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To override the limits in Sentence 4.2.8.2.(1) and permit more liquids in a building if the liquids are stored in a manner that will limit the probability of the spread of fire, which could lead to damage to the building.

Intent(s)

Intent 1. To state the application of Sentences 4.2.8.4.(2) to 4.2.8.4.(6).

Provision: 4.2.8.4.(2)

Intent(s)

Intent 1. To expand the application of Article 3.2.3.3. and clarify how it should apply to the incidental storage of liquids that are otherwise covered in this Article.

Provision: 4.2.8.4.(3)

Intent Statements: NFC 2010

Intent(s)

Intent 1. To expand the application of the storage height limitations in Table 4.2.7.5.-A for unprotected storage.

Provision: 4.2.8.4.(4)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability of the spread of a fire involving excessive quantities of liquids beyond the point of fire origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability of the spread of a fire involving excessive quantities of liquids beyond the point of fire origin, which could lead to damage to the building.

Provision: 4.2.8.4.(5)

Intent(s)

Intent 1. To clarify what quantity limits apply to a storage situation for which there would otherwise be no applicable requirement in Sentence 4.2.8.4.(4).

Provision: 4.2.8.4.(6)

Intent(s)

Intent 1. To clarify what quantity limits apply to a storage situation for which there would otherwise be no applicable requirement in Sentence 4.2.8.4.(4).

Provision: 4.2.9.1.(1)

Objective

OS1

Attributions

[F02-OS1.2] Applies to storage densities averaged over the total room area.

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread beyond the point of fire origin, which could lead to harm to persons.

Objective

OS1

Attributions

[F02-OS1.2] Applies to the total quantities of *flammable liquids* and *combustible liquids*.

Intent(s)

Intent 1. To limit the probability that a fire involving stored liquids will spread beyond the storage area to other parts of the building, which could lead to harm to persons.

Objective

OS1

Attributions

[F03-OS1.2] Applies to the *fire-resistance ratings* of *fire separations*.

Intent(s)

Intent 1. To limit the probability that a fire involving stored products will spread to other parts of the building, which could lead to harm to persons, including emergency responders.

To limit the probability that activities in other parts of the building will lead to a fire exposure hazard to the stored products, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F02-OP1.2] Applies to storage densities averaged over the total room area.

Intent(s)

Intent 1. To limit the probability that a fire in stored products will spread beyond the point of fire origin, which could lead to damage to the building.

Objective

OP1

Attributions

[F02-OP1.2] Applies to the total quantities of *flammable liquids* and *combustible liquids*.

Intent(s)

Intent 1. To limit the probability that a fire involving stored liquids will spread beyond the storage area to other parts of the building, which could lead to damage to the building.

Objective

OP1

Attributions

[F03-OP1.2] Applies to the *fire-resistance ratings* of *fire separations*.

Intent(s)

Intent 1. To limit the probability that a fire involving the stored products will spread to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that activities in other parts of the building will lead to a fire exposure hazard to the stored products, which could lead to damage to the building.

Intent Statements: NFC 2010

Intent(s)

Intent 1. To state the application of Subsection 4.2.9.

Provision: 4.2.9.1.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving stored liquids will spread beyond the point of fire origin to other parts of the building, which could lead to harm to persons, including emergency responders.

Intent 2. To require the storage room to be protected with an automatic fire suppression system when liquid quantities are increased.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving stored liquids will spread beyond the point of fire origin to other parts of the building, which could lead to damage to the building.

Intent 2. To require the storage room to be protected with an automatic fire suppression system when liquid quantities are increased.

Intent(s)

Intent 1. To direct Code users to Sentence 4.2.7.6.(1).

Provision: 4.2.9.1.(3)

Intent(s)

Intent 1. To supersede the total quantity limits in Table 4.2.9.1. [referenced in Sentence 4.2.9.1.(1)] and reduce the maximum quantity levels to those permitted in Table 4.2.7.5.-A for a comparable storage situation.

Intent 2. To expand the application of Sentences 4.2.7.5.(1), 4.2.7.5.(3) and 4.2.7.5.(4).

Provision: 4.2.9.2.(1)

Objective

OS1

Attributions

[F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability of the escape of liquids through joints, which could lead to a fire hazard outside of the storage room, which could lead to harm to persons in other parts of the building.

Objective

OP1

Attributions

[F44-OP1.2]

Intent(s)

Intent 1. To limit the probability of the escape of liquids through joints, which could lead to a fire hazard and the spread of fire outside of the storage room, which could lead to damage to the building.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquids through joints, which could lead to harm to the public.

Provision: 4.2.9.3.(1)

Objective

OS1

Attributions

[F81, F82-OS1.1, OS1.2] [F12-OS1.2] [F10-OS1.5]

Intent(s)

Intent 1. To limit the probability of accidental damage to containers, which could lead to the unwanted release of contents, which could lead to a fire hazard, which could lead to harm to persons.

Intent 2. To limit the probability that a leak from a container will remain unnoticed, which could lead to a fire hazard, which could lead to harm to persons.

Intent 3. To limit the probability of delays or ineffectiveness in conducting manual firefighting operations, which could lead to the spread of fire beyond the point of fire origin, which could lead to harm to persons, including emergency responders.

Intent 4. To limit the probability that egress from the room will become impeded, which could lead to delays in evacuation and emergency response, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability of delays or ineffectiveness in conducting manual firefighting operations, which could lead to the spread of fire beyond the point of fire origin, which could lead to damage to the building.

Provision: 4.2.9.4.(1)

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the unnecessary release of flammable vapours or the accidental escape of flammable liquids, which could lead to a fire or explosion hazard in the presence of an ignition source, which could lead to harm to persons.

Provision: 4.2.9.5.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the design of rooms where Class IA or IB liquids are stored.

Provision: 4.2.10.1.(1)

Objective

OS1

Attributions

[F43, F01-OS1.1] Applies to storage in *closed containers*.

Intent(s)

Intent 1. To limit the probability of the unnecessary release of flammable vapours or the accidental escape of flammable liquids or combustible liquids, which could lead to a fire or explosion hazard in the presence of an ignition source, which could lead to harm to persons.

Intent(s)

Intent 1. To direct Code users to Article 4.2.3.1.

Provision: 4.2.10.2.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire will involve excessive quantities of liquids, which could lead to the spread of liquids outside of cabinets, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire will involve excessive quantities of liquids, which could lead to the spread of liquids outside of cabinets, which could lead to a fire or explosion, which could lead to damage to the building.

Provision: 4.2.10.3.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored liquids will spread to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the stored liquids will spread to other parts of the building, which could lead to damage to the building.

Provision: 4.2.10.3.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To waive the total capacity limits in Sentence 4.2.10.3.(1) if measures are taken to limit the probability that a fire involving the maximum quantities of liquids in cabinets [as stated in Sentence 4.2.10.3.(1)] will spread and involve liquids in the other [additional] cabinets within the same fire compartment.

This is to limit the probability that a fire involving the stored liquids will spread to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To waive the total capacity limits in Sentence 4.2.10.3.(1) if measures are taken to limit the probability that a fire involving the maximum quantities of liquids in cabinets [as stated in Sentence 4.2.10.3.(1)] will spread and involve liquids in the other [additional] cabinets within the same fire compartment.

This is to limit the probability that a fire involving the stored liquids will spread to other parts of the building, which could lead to damage to the building.

Provision: 4.2.10.3.(3)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To override the permission in Sentence 4.2.10.3.(1) that allows 3 such cabinets per fire compartment, in order to limit flammable and combustible contents [fire loading].

This is to limit the probability that a fire involving the stored liquids will spread to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To override the permission in Sentence 4.2.10.3.(1) that allows 3 such cabinets per fire compartment, in order to limit flammable and combustible contents [fire loading].

This is to limit the probability that a fire involving the stored liquids will spread to other parts of the building, which could lead to damage to the building.

Provision: 4.2.10.4.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of vapour ignition, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.2.10.5.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of vapour ignition, which could lead to a fire or explosion, which could lead to harm to persons nearby.

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of the spread of an unwanted release of liquid in cabinets to adjacent areas, which could lead to a fire hazard, which could lead to harm to persons.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that liquids stored in cabinets will be involved in a fire originating outside of the cabinets, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that liquids stored in cabinets will become involved in a fire originating outside of the cabinets, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of the spread of an unwanted release of liquid in cabinets to adjacent areas, which could lead to a fire hazard, which could lead to damage to the building.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability of the spread of an unwanted release of liquid in cabinets to adjacent areas, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.2.10.6.(1)

Objective

OS1

Attributions

4.2.10.6.(1)(a) [F01-OS1.1, OS1.2] Applies to materials providing equivalent fire protection.

4.2.10.6.(1)(b) [F01-OS1.1, OS1.2] Applies to the vent piping providing equivalent fire protection.

Intent(s)

Intent 1. To limit the probability that ignitable concentrations of vapours generated inside cabinets will be ignited by an external fire [outside of the cabinets], which could lead to an explosion or the spread of fire, which could lead to harm to persons.

Objective

OS1

Attributions

4.2.10.6.(1)(a) [F01-OS1.1] Applies to portion of Code text: "... the ventilation openings shall be sealed ..."

4.2.10.6.(1)(b) [F01-OS1.1] Applies to portion of Code text: "... the cabinet shall be vented outdoors ..."

Intent(s)

Intent 1. To limit the probability that ignitable concentrations of vapours generated inside cabinets will come in contact with external sources of ignition [outside the cabinets], which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.2.11.1.(1)

Objective

OS1

Attributions

[F03, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in the outdoor stored products will spread to other piles or to adjacent buildings, which could lead to harm to persons.

Objective

OP3

Attributions

[F03, F02-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire in the outdoor stored products will spread to other piles and to adjacent buildings, which could lead to damage to adjacent buildings or facilities.

Provision: 4.2.11.1.(2)

Objective

OS1

Attributions

4.2.11.1.(2)(a), 4.2.11.1.(2)(b) [F03, F02-OS1.2]

Intent(s)

Intent 1. To waive the clearances [to buildings as required in Sentence 4.2.11.1.(1) and Table 4.2.11.1.] if the quantity of liquids stored outdoors [fire load] is limited and the building:

- is small and used primarily for the storage or handling of liquids, or
- is protected in such a manner that a fire in the outdoor container storage area is unlikely to spread inside the adjacent building, and a fire originating inside the building is unlikely to spread to the storage area.

This is to limit the probability of the spread of fire, which could lead to harm to persons, including emergency responders.

Objective

OP3

Attributions

4.2.11.1.(2)(a), 4.2.11.1.(2)(b) [F03, F02-OP3.1]

Intent(s)

Intent 1. To waive the clearances [to buildings as required in Sentence 4.2.11.1.(1) and Table 4.2.11.1.] if the quantity of liquids stored outdoors [fire load] is limited and the building or facility:

- is small and used primarily for the storage or handling of liquids, or
- is protected in such a manner that a fire in the outdoor container storage area is unlikely to spread inside the adjacent building, and a fire originating inside the building is unlikely to spread to the storage area.

This is to limit the probability of the spread of fire, which could lead to damage to the building or facility.

Provision: 4.2.11.2.(1)

Intent(s)

Intent 1. To clarify what quantity limits apply to a storage situation for which there would otherwise be no applicable requirement in Table 4.2.11.1. [referenced in Sentence 4.2.11.1.(1)].

Provision: 4.2.11.3.(1)

Objective

OP3

Attributions

[F12-OP3.1]

Intent(s)

Intent 1. To limit the probability that firefighters will be delayed or impeded in conducting firefighting operations, which could lead to the spread of a fire involving the stored products to adjacent buildings, which could lead to damage to adjacent buildings or facilities.

Intent Statements: NFC 2010

Provision: 4.2.11.4.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6.

Provision: 4.2.11.5.(1)

Intent(s)

Intent 1. To expand the application of Article 3.3.2.6.

Provision: 4.3.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 4.3.

Provision: 4.3.1.2.(1)

Objective

OS1

Attributions

[F20, F80, F43, F81, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from the tank, which could lead to the release and subsequent ignition of vapour, which could lead to harm to persons.

Intent 2. To limit the probability of the release and subsequent ignition of vapour from the tank, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F80, F43, F81-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from the tank, which could lead to harm to the public.

Provision: 4.3.1.2.(2)

Intent(s)

Intent 1. To limit the application of Clauses 4.3.1.2.(1)(a), 4.3.1.2.(1)(b) and 4.3.1.2.(1)(c).

Provision: 4.3.1.2.(3)

Intent(s)

Intent 1. To remove tanks from the application of Sentence 4.3.1.2.(1) if the tanks are designed and constructed to limit the probability of the escape of liquid and vapour, but only if there is a situation of:

- possible contamination of the liquid being stored from contact of the liquid or its vapour with the tank, or
- possible rapid deterioration of the tank from contact with the liquid being stored or its vapour, which could lead to the premature failure of the tank and the escape of its contents.

Provision: 4.3.1.2.(4)

Objective

OS1

Attributions

[F01, F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of the release and subsequent ignition of vapour from the tank, which could lead to harm to persons.

Intent 2. To limit the probability of the buildup of excessive internal pressure in the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability of the buildup of excessive internal pressure in the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.1.3.(1)

Objective

OS1

Attributions

[F43, F80, F81, F20, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of the release and subsequent ignition of vapour from the tank, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability of the buildup of excessive internal pressure in the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F43, F80, F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from the tank, which could lead to harm to the public.

Intent 2. To limit the probability of the buildup of excessive internal pressure in the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.1.3.(2)

Objective

OS1

Attributions

[F81, F80, F43, F01, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of the release and subsequent ignition of vapour from the tank, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability of the buildup of excessive internal pressure in the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F81, F80, F20-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from the tank, which could lead to harm to the public.

Intent 2. To limit the probability of the buildup of excessive internal pressure in the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.1.3.(3)

Intent(s)

Intent 1. To permit flexibility in the use of tanks designed for higher pressures for use as atmospheric storage tanks.

Provision: 4.3.1.4.(1)

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability of the buildup of excessive internal pressure in the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability of the buildup of excessive internal pressure in the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.1.5.(1)

Objective

OS1

Attributions

[F80-OS1.1]

Intent(s)

Intent 1. To limit the probability of the premature corrosion of the tank, which could lead to the escape of liquid or vapour, which could lead to a fire or explosion hazard, which could lead to harm to persons.

Objective

OH5

Attributions

[F80-OH5]

Intent(s)

Intent 1. To limit the probability of the premature corrosion of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.1.6.(1)

Objective

OS1

Attributions

[F04-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that exposure to fire will lead to the failure of the tank roof or covers, which could lead to the release and subsequent ignition of vapour from the tank, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.3.1.7.(1)

Objective

OS1

Attributions

[F81-OS1.1] [F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of the mixing of incompatible products--or the mixing of Class I liquids with Class II or III liquids--during normal operations, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of delays or inefficiencies in responding to a fire emergency, which could lead to the spread of fire beyond the point of fire origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in responding to a fire emergency, which could lead to the spread of fire beyond the point of fire origin, which could lead to damage to the building or facility.

Provision: 4.3.1.8.(1)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will escape from the tank, which could lead to the ignition of liquid or vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape from the tank, which could lead to harm to the public.

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that liquid will escape from the tank, which could lead to the ignition of liquid or vapour, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Provision: 4.3.1.8.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will escape from the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape from the tank, which could lead to harm to the public.

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that liquid will escape from the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Provision: 4.3.1.9.(1)

Objective

OS1

Attributions

[F81, F80, F43, F01, F20-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability of the escape of liquid from the tank, which could lead to the ignition of vapour from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of the release and subsequent ignition of vapour from the tank, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability of the buildup of excessive pressure inside the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F80, F43, F01, F20-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from the tank, which could lead to harm to the public.

Intent 2. To limit the probability of the buildup of excessive pressure inside the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.1.10.(1)

Attributions

4.3.1.10.(1)(a)

Intent(s)

Intent 1. To expand the application of Sentence 4.3.1.2.(1) and require that the same standards used for building new tanks be applied to the refurbishing of tanks for reuse.

Attributions

4.3.1.10.(1)(b)

Intent(s)

Intent 1. To state the application of Sentences 4.3.1.10.(2) and 4.3.1.10.(3).

Provision: 4.3.1.10.(2)

Objective

OS1

Attributions

[F20, F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from tanks, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of the escape of vapour from tanks, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from tanks, which could lead to harm to the public.

Provision: 4.3.1.10.(3)

Objective

OS1

Attributions

[F20, F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid and vapour from tanks, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from tanks, which could lead to harm to the public.

Provision: 4.3.1.10.(4)

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that the tank will be damaged during relocation operations, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that the relocated tank will be reused, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that the tank will be damaged during relocation operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the relocated tank will be reused, which could lead to the escape of liquid or vapour, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.3.2.1.(1)

Intent(s)

Intent 1. To direct Code users to Sentences 4.3.2.1.(2) to 4.3.2.1.(5).

Provision: 4.3.2.1.(2)

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with tanks and their liquids will spread to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with tanks and their liquids will lead to harm to persons in outdoor areas or adjacent buildings.

Provision: 4.3.2.1.(3)

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with tanks and their liquids will spread to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with tanks and their liquids will lead to harm to persons in outdoor areas or adjacent buildings.

Provision: 4.3.2.1.(4)

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with tanks and their liquids will spread to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with tanks and their liquids will lead to harm to persons in outdoor areas or adjacent buildings.

Provision: 4.3.2.1.(5)

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with tanks and their liquids will spread to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with tanks and their liquids will lead to harm to persons in outdoor areas or adjacent buildings.

Provision: 4.3.2.1.(6)

Objective

OP3

Attributions

4.3.2.1.(6)(a) [F03-OP3.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To reduce the clearances required in Sentence 4.3.2.1.(2) if the tank:

- contains only liquids that will not produce vapour at normal ambient temperatures, and
- has a capacity that does not pose a fire hazard.

This is to limit the probability of damage to adjacent buildings or facilities.

Objective

OP3

Attributions

4.3.2.1.(6)(b) [F01, F02-OP3.1]

Intent(s)

Intent 1. To reduce the clearances to a building on the same property required in Sentence 4.3.2.1.(2) if the tank:

- contains only liquids that will not produce vapour at normal ambient temperatures, and
- has a capacity not exceeding that of tanks permitted by CAN/CSA-B139 to be installed adjacent to a detached building unit.

This is to limit the probability of damage to adjacent buildings or facilities.

Objective

OS1

Attributions

4.3.2.1.(6)(a) [F03-OS1.2]

Intent(s)

Intent 1. To reduce the clearances required in Sentence 4.3.2.1.(2) if the tank:

- contains only liquids that will not produce vapour at normal ambient temperatures, and
- has a capacity that does not pose a fire hazard, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.2.1.(6)(b) [F01, F02-OS1.2]

Intent(s)

Intent 1. To reduce the clearances to a building on the same property required in Sentence 4.3.2.1.(2) if the tank:

- contains only liquids that will not produce vapour at normal ambient temperatures, and
- has a capacity not exceeding that of tanks permitted by CAN/CSA-B139 to be installed adjacent to a detached building unit, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.3.2.1.(7)

Objective

OP3

Attributions

[F04, F02-OP3.1]

Intent(s)

Intent 1. To reduce the clearances required in Sentence 4.3.2.1.(2) when the storage tank is built in conformance with ULC-S655 standard

Objective

OS1

Attributions

[F04, F02-OS1.2]

Intent(s)

Intent 1. To reduce the clearances required in Sentence 4.3.2.1.(2) if the tank will not fail for a period of 2 h when submitted to a high intensity furnace test and has a capacity that does not pose a fire hazard.

Provision: 4.3.2.1.(8)

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent 1. To limit the probability of the axial travelling (rocketing) of tanks upon tank failure when exposed to fire, which could lead to damage to adjacent buildings or facilities.

Provision: 4.3.2.2.(1)

Objective

OP1

Attributions

[F03, F12-OP1.2] Applies to the minimum distance being 0.25 times the sum of the tanks' diameters.

Intent(s)

Intent 1. To limit the probability of the spread of fire from one tank to another, which could lead to damage to the facility.

Intent 2. To limit the probability of delays or inefficiencies in conducting firefighting operations, which could lead to the spread of fire from one tank to another, which could lead to damage to the facility.

Objective

OS1

Attributions

[F82-OS1.1] Applies to the minimum distance of 1 m between the *storage tanks*.

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that tank defects, premature deterioration, or the escape of liquid will remain unnoticed, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.2] Applies to the minimum distance of 1 m between the *storage tanks* .

Intent(s)

Intent 1. To limit the probability that the escape of liquid will remain unnoticed, which could lead to the ignition of vapour, which could lead to the spread of fire to another tank, which could lead to damage to the facility.

Objective

OH5

Attributions

[F82-OH5] Applies to the minimum distance of 1 m between the *storage tanks*.

Intent(s)

Intent 1. To limit the probability that the escape of liquid will remain unnoticed, which could lead to harm to the public.

Provision: 4.3.2.2.(2)

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To reduce the required spacing [in Sentence 4.3.2.2.(1)] intended to avoid the spread of fire from one tank to another for tanks of such limited capacities that they are deemed to pose a lesser fire hazard.

Provision: 4.3.2.2.(3)

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To increase the required spacing intended to limit the probability of the spread of fire from one tank to another if either tank contains liquids that can undergo violent decomposition or reaction.

Provision: 4.3.2.3.(1)

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with liquid storage tanks will spread to adjacent liquefied petroleum gas cylinders or tanks, which could lead to damage to the liquid storage tanks.

Intent 2. To limit the probability that a fire or explosion associated with liquefied petroleum gas cylinders or tanks will lead to a fire exposure hazard to the liquid storage tanks, which could lead to damage to the facility.

Provision: 4.3.2.3.(2)

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a spill fire in the secondary containment will spread to adjacent liquefied petroleum gas cylinders or tanks, which could lead to damage to the liquid storage tank.

Provision: 4.3.2.4.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of delays and inefficiencies in conducting firefighting operations, which could lead to the spread of fire from adjacent tanks, buildings or property to the tank, which could lead to damage to the facility.

Intent 2. To limit the probability of delays and inefficiencies in conducting firefighting operations, which could lead to the spread of fire in or associated with the tank to adjacent tanks, which could lead to damage to the facility.

Provision: 4.3.2.4.(2)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that firefighters will be delayed or impeded in conducting firefighting operations, or will be unable to properly stage their equipment, which could lead to the spread of fire from adjacent tanks, buildings or property to the tank, which could lead to damage to the facility.

Intent 2. To limit the probability that firefighters will be delayed or impeded in conducting firefighting operations, or will be unable to properly stage their equipment, which could lead to the spread of fire in or associated with the tank to adjacent tanks, which could lead to damage to the facility.

Provision: 4.3.2.4.(3)

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To remove such tanks from the requirements of Sentences 4.3.2.4.(1) and 4.3.2.4.(2), and to provide an access route and spacing between tanks, if automatic fire protection measures are provided:

- to control and limit fire to the tank of fire origin, and
- to protect the tank from fire exposure.

Intent(s)

Intent 1. To state [part of] the application of Sentence 4.3.2.5.(2).

Provision: 4.3.2.5.(1)

Intent(s)

Intent 1. To state [part of] the application of Sentence 4.3.2.5.(2).

Provision: 4.3.2.5.(2)

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with the tank will spread to adjacent tanks on the same property, which could lead to damage to the facility.

Intent 2. To limit the probability of the spread of fire from adjacent buildings, tanks or property to the tank, which could lead to damage to the facility.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire in or associated with the tank will lead to harm to persons in adjacent buildings or on adjacent properties.

Provision: 4.3.3.1.(1)

Objective

OS1

Attributions

[F02-OS1.2] Applies to the requirement that *storage tanks* rest on the ground or on foundations, supports or piling made of concrete, masonry or steel.

Intent(s)

Intent 1. To limit the probability that combustible supports will contribute to a fire under the tank, which could lead to the failure of the tank from exposure to the fire, which could lead to the growth and spread of fire, which could lead to harm to persons.

Objective

OS1

Attributions

[F22, F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability of excessive movement of the tank, which could lead to the failure of the tank and associated piping, which could lead to the escape of liquid from the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F22, F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability of excessive movement of the tank, which could lead to the failure of the tank and associated piping, which could lead to the escape of liquid from the tank, which could lead to harm to the public.

Provision: 4.3.3.1.(2)

Objective

OS1

Attributions

[F22-OS1.1] Applies to the installation of tank supports on firm foundations designed to minimize uneven settling of the tank.

Intent(s)

Intent 1. To limit the probability of excessive movement of the tank, which could lead to the failure of the tank and associated piping, which could lead to the escape of liquid from the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F80-OS1.1] Applies to the minimizing of corrosion of the part of the tank resting on the foundation.

Intent(s)

Intent 1. To limit the probability of the premature corrosion of the tank, which could lead to the escape of liquid from the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F22-OH5] Applies to the installation of tank supports on firm foundations designed to minimize uneven settling of the tank.

Intent(s)

Intent 1. To limit the probability of excessive movement of the tank, which could lead to the failure of the tank and associated piping, which could lead to the escape of liquid from the tank, which could lead to harm to the public.

Objective

OH5

Attributions

[F80-OH5] Applies to the installation of tank supports on firm foundations designed to minimize corrosion of the part of the tank resting on the foundation.

Intent(s)

Intent 1. To limit the probability of the premature corrosion of the tank, which could lead to the escape of liquid from the tank, which could lead to harm to the public.

Provision: 4.3.3.1.(3)

Objective

OS1

Attributions

[F04-OS1.2]

Intent(s)

Intent 1. To limit the probability that exposure to fire will lead to the premature collapse of tank supports, which could lead to the escape of liquid from the tank, which could lead to the spread of fire to adjacent areas, which could lead to harm to persons.

Provision: 4.3.3.1.(4)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of an excessive concentration of loads on the supporting portion of the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability of an excessive concentration of loads on the supporting portion of the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.3.2.(1)

Objective

OS1

Attributions

[F22-OS1.1]

Intent(s)

Intent 1. To limit the probability of excessive movement or deformation of the tank, associated piping or supports due to an earthquake, which could lead to the failure of the tank or associated piping, which could lead to the escape of liquid, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F22-OH5]

Intent(s)

Intent 1. To limit the probability of excessive movement or deformation of the tank, associated piping or supports due to an earthquake, which could lead to the failure of the tank or associated piping, which could lead to the escape of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.3.3.3.(1)

Objective

OS1

Attributions

[F22-OS1.1]

Intent(s)

Intent 1. To limit the probability that buoyant forces will lead to the tank being floated from its supports and foundation, which could lead to damage to the tank or its associated piping, which could lead to the escape of liquid, which could lead to a fire or explosion hazard, which could lead to harm to persons.

Objective

OH5

Attributions

[F22-OH5]

Intent(s)

Intent 1. To limit the probability that buoyant forces will lead to the tank being floated from its supports and foundation, which could lead to damage to the tank or its associated piping, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.4.1.(1)

Objective

OS1

Attributions

[F20, F81-OS1.1] Applies to the requirement for normal venting.

Intent(s)

Intent 1. To limit the probability that atmospheric temperature changes--or liquids entering or leaving the tank--will lead to an excessive internal tank vacuum or pressure, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS1

Attributions

[F04, F81-OS1.1] Applies to the requirement for emergency venting.

Intent(s)

Intent 1. To limit the probability that exposure to fire will lead to excessive internal tank pressure, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5] Applies to the requirement for normal venting.

Intent(s)

Intent 1. To limit the probability that atmospheric temperature changes--or liquids entering or leaving the tank--will lead to an excessive internal tank vacuum or pressure, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.4.2.(1)

Objective

OS1

Attributions

[F20, F81, F04-OS1.1]

Intent(s)

Intent 1. To limit the probability that chemical reaction or exposure to fire will lead to excessive internal tank pressure, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81, F04-OH5]

Intent(s)

Intent 1. To limit the probability that chemical reaction or exposure to fire will lead to excessive internal tank pressure, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.5.1.(1)

Intent(s)

Intent 1. To direct Code users to Subsections 4.5.2., Subsection 4.5.3. and 4.5.5.

Provision: 4.3.5.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the accumulation of vapour near buildings and its subsequent ignition by indoor or outdoor ignition sources, which could lead to harm to persons.

Intent Statements: NFC 2010

Intent 2. To limit the probability of the release of vapour in buildings or its re-entry into buildings, which could lead to the accumulation and subsequent ignition of vapour, which could lead to harm to persons.

Provision: 4.3.5.2.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the accumulation of vapour near buildings and its subsequent ignition by outdoor ignition sources, which could lead to harm to persons.

Intent 2. To limit the probability of the release of vapour in buildings or its re-entry into buildings, which could lead to the accumulation and subsequent ignition of vapour, which could lead to harm to persons.

Provision: 4.3.5.2.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the accumulation of vapour near buildings and its subsequent ignition by outdoor ignition sources, which could lead to harm to persons.

Provision: 4.3.5.3.(1)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that atmospheric temperature changes--or liquids entering or leaving the tank--will lead to excessive internal tank vacuum or pressure, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that atmospheric temperature changes--or liquids entering or leaving the tank--will lead to excessive internal tank vacuum or pressure, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.5.3.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the contamination of Class II or IIIA liquid vapours with Class I liquid vapours, which could lead to the accumulation and subsequent ignition of vapour, which could lead to harm to persons.

Provision: 4.3.6.1.(1)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that damage or malfunction of tank-associated piping will lead to the escape of liquid, which could lead to the spread of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability that damage or malfunction of tank-associated piping will lead to the escape of liquid, which could lead to the spread of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that damage or malfunction of tank-associated piping will lead to the escape of liquid, which could lead to the spread of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.3.6.1.(2)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that damage or malfunction of tank-associated piping will lead to the escape of liquid, which could lead to the spread of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability that damage or malfunction of tank-associated piping will lead to the escape of liquid, which could lead to the spread of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that damage or malfunction of tank-associated piping will lead to the escape of liquid, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.3.6.2.(1)

Objective

OS1

Attributions

[F04, F20-OS1.1] Applies to portion of Code text: "Valves and their connections to a *storage tank* shall be made of steel ..."

Intent(s)

Intent 1. To limit the probability that the inability of valves or connections to resist stresses, impacts or high temperatures created by a fire exposure will lead to the failure of the valves or connections, which could lead to the escape of liquid from the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F04, F20-OH5] Applies to portion of Code text: “Valves and their connections to a *storage tank* shall be made of steel ...”

Intent(s)

Intent 1. To limit the probability that the inability of valves or connections to resist stresses, impacts or high temperatures created by a fire exposure will lead to the failure of the valves or connections, which could lead to the escape of liquid from the tank, which could lead to harm to the public.

Intent(s)

Intent 1. To remove the requirement to use steel if the chemical characteristics of the liquid are incompatible with steel in such a manner that using steel would:

- lead to a fire or explosion hazard, or
- lead to premature failure of the valves or connections.

Provision: 4.3.6.2.(2)

Objective

OS1

Attributions

[F20, F04-OS1.1]

Intent(s)

Intent 1. To limit the probability that the inability of valves or connections to resist pressures, stresses, impacts or temperatures created by normal and fire exposure conditions will lead to the failure of the valves or connections, which could lead to the escape of liquid from the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F04-OH5] Applies to the materials for valves and their connections to a *storage tank* being suitable for the pressures, stresses and temperatures.

Intent(s)

Intent 1. To limit the probability that the inability of valves or connections to resist pressures, stresses, impacts or temperatures created by normal and fire exposure conditions will lead to the failure of the valves or connections, which could lead to the escape of liquid from the tank, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.3.6.3.(1)

Objective

OS1

Attributions

[F43, F01, F81, F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape through the opening, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of tampering or entry of foreign objects into the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability of entry of precipitation into the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F81, F34-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape through the opening, which could lead to harm to the public.

Intent 2. To limit the probability of tampering or entry of foreign objects into the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 3. To limit the probability of the entry of precipitation into the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.6.4.(1)

Objective

OS1

Attributions

4.3.6.4.(1)(a), 4.3.6.4.(1)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the accumulation and subsequent ignition of vapour near buildings by outdoor ignition sources, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.6.4.(1)(a), 4.3.6.4.(1)(c) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the release of vapour in--or the re-entry of vapour into--the building, which could lead to the accumulation and subsequent ignition of vapour, which could lead to harm to persons in the building.

Provision: 4.3.6.4.(2)

Objective

OS1

Attributions

[F43, F01, F81, F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape through the opening, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of tampering or entry of foreign objects into the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability of entry of precipitation into the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F81, F34-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape through the opening, which could lead to harm to the public.

Intent 2. To limit the probability of tampering or entry of foreign objects into the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 3. To limit the probability of entry of precipitation into the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.6.4.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To remove the requirement in Sentence 4.3.6.4.(1) for filling connections to be located outdoors if the tank has a certain use [collection of used liquids] or indoor association, and if measures are taken to limit the probability of vapour accumulation in the building, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.3.7.1.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6.

Provision: 4.3.7.1.(2)

Intent Statements: NFC 2010

Intent(s)

Intent 1. To state part of the application of Subsection 4.3.7.

Provision: 4.3.7.1.(3)

Intent(s)

Intent 1. To clarify which tank assemblies incorporating secondary spill containment conform to Subsection 4.3.7. and under what conditions.

Provision: 4.3.7.2.(1)

Objective

OS1

Attributions

[F04-OS1.1] Applies to the construction of the base and walls of secondary containments with noncombustible materials.

Intent(s)

Intent 1. To limit the probability that fire exposure will lead to failure of the secondary containment, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.7.2.(1)(a) [F20-OS1.1] Applies to the base and walls of secondary containments being designed, constructed and maintained to withstand full hydrostatic head.

Intent(s)

Intent 1. To limit the probability that the inability of the secondary containment to resist the hydrostatic load of the liquid it holds will lead to failure of the secondary containment, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.7.2.(1)(b) [F44-OS1.1] Applies to the base and walls of secondary containments being designed, constructed and maintained to provide the stated permeability.

Intent(s)

Intent 1. To limit the probability of liquid seepage through the secondary containment, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F04-OP1.1] Applies to the construction of the base and walls of secondary containments with noncombustible materials.

Intent(s)

Intent 1. To limit the probability that fire exposure will lead to failure of the secondary containment, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OP1

Attributions

4.3.7.2.(1)(a) [F20-OP1.1] Applies to the base and walls of secondary containments being designed, constructed and maintained to withstand full hydrostatic head.

Intent(s)

Intent 1. To limit the probability that the inability of the secondary containment to resist the hydrostatic load of the liquid it holds will lead to failure of the secondary containment, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.3.7.2.(1)(a) [F20-OH5] Applies to the base and walls of secondary containments being designed, constructed and maintained to withstand full hydrostatic head.

Intent(s)

Intent 1. To limit the probability that the inability of the secondary containment to resist the hydrostatic load of the liquid it holds will lead to failure of the secondary containment, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to harm to the public.

Objective

OP1

Attributions

4.3.7.2.(1)(b) [F44-OP1.1] Applies to the base and walls of secondary containments being designed, constructed and maintained to provide the stated permeability.

Intent(s)

Intent 1. To limit the probability of liquid seepage through the secondary containment, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Objective

OH5

Attributions

4.3.7.2.(1)(b) [F44-OH5] Applies to the base and walls of secondary containments being designed, constructed and maintained to provide the stated permeability.

Intent(s)

Intent 1. To limit the probability of liquid seepage through the secondary containment, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to the public.

Provision: 4.3.7.2.(2)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To remove the requirement in Sentence 4.3.7.2.(1) for secondary containment to be made of non-combustible materials if the membrane is protected against failure due to fire exposure by a thermal barrier.

This is to limit the probability of the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To remove the requirement in Sentence 4.3.7.2.(1) for secondary containment to be made of non-combustible materials if the membrane is protected against failure due to fire exposure by a thermal barrier.

This is to limit the probability of the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.7.2.(3)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of leakage through the secondary containment openings, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability of leakage through the secondary containment openings, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to harm to the public.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of leakage through the secondary containment openings, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.7.2.(4)

Intent(s)

Intent 1. To remove the prohibition in Sentence 4.3.7.2.(3) and permit openings, only if they are for the passage of piping and are sealed to the same standards as the containment itself.

Intent 2. To clarify the application of Sentences 4.3.7.2.(1) and 4.3.7.2.(2) to seals around openings for the passage of piping.

Provision: 4.3.7.3.(1)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of overtopping [overflowing] of the spill containment area, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of overtopping [overflowing] of the spill containment area, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to

Intent Statements: NFC 2010

the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability of overtopping [overflowing] of the spill containment area, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to harm to the public.

Provision: 4.3.7.3.(2)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of overtopping [overflowing] of the spill containment area, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of overtopping [overflowing] of the spill containment area, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability of overtopping [overflowing] of the spill containment area, which could lead to the escape and spread of liquid outside of the secondary containment, which could lead to harm to the public.

Provision: 4.3.7.3.(3)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To remove the requirement in Sentences 4.3.7.3.(1) and 4.3.7.3.(2) to add a 10% safety factor in calculating the capacity of secondary containment if the containment is designed to prevent the entry of precipitation and water used for firefighting into the contained space.

This is to limit the probability of liquid overflow and escape, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To remove the requirement in Sentences 4.3.7.3.(1) and 4.3.7.3.(2) to add a 10% safety factor in calculating the capacity of secondary containment if the containment is designed to prevent the entry of precipitation and water used for firefighting into the contained space.

This is to limit the probability of liquid overflow and escape, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To remove the requirement in Sentences 4.3.7.3.(1) and 4.3.7.3.(2) to add a 10% safety factor in calculating the capacity of secondary containment if the containment is designed to prevent the entry of precipitation and water used for firefighting into the contained space.

This is to limit the probability of liquid overflow and escape, which could lead to harm to the public.

Provision: 4.3.7.4.(1)

Objective

OS1

Attributions

[F01, F82-OS1.1] [F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of vapour accumulation in the contained space, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of delays or ineffectiveness in firefighting efforts, which could lead to the spread of fire beyond the point of fire origin, which could lead to harm to persons.

Intent Statements: NFC 2010

Intent 3. To limit the probability that a tank defect or leak from the tank will go unnoticed, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that a tank defect or leak from the tank will go unnoticed, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F01, F82-OP1.1] [F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of vapour accumulation in the contained space, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays or ineffectiveness in firefighting efforts, which could lead to the spread of fire beyond the point of fire origin, which could lead to damage to the building or facility.

Intent 3. To limit the probability that a tank defect or leak from the tank will go unnoticed, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.7.4.(2)

Objective

OS1

Attributions

[F44, F81-OS1.1]

Intent(s)

Intent 1. To waive the clearance required in Sentence 4.3.7.4.(1) for certain constructed, sized and protected tanks that limit the probability of the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F44, F81-OP1.1]

Intent(s)

Intent 1. To waive the clearance required in Sentence 4.3.7.4.(1) for certain constructed, sized and protected tanks that limit the probability of the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F44, F81-OH5]

Intent(s)

Intent 1. To waive the clearance required in Sentence 4.3.7.4.(1) for certain constructed, sized and protected tanks that limit the probability of the escape of liquid, which could lead to harm to the public.

Provision: 4.3.7.5.(1)

Objective

OS1

Attributions

4.3.7.5.(1)(a) [F82-OS1.1] [F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of restricted access to tanks, valves and ancillary equipment in the containment space by employees for normal operation, maintenance or inspection, which could lead to defects or liquid escape going unnoticed, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of restricted access to tanks, valves and ancillary equipment in the containment space by emergency responders, which could lead to delays or impediment of their operations, which could lead to the spread of fire beyond the point of fire origin, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.7.5.(1)(b) [F10-OS1.5]

Intent(s)

Intent 1. To limit the probability that egress of emergency responders from the secondary containment will be restricted in a fire situation, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.7.5.(1)(c) [F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of restricted emergency responder access to tanks in the containment, which could lead to delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire beyond the point of fire origin, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

4.3.7.5.(1)(c) [F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of restricted emergency responder access to tanks in the containment, which could lead to delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire beyond the point of fire origin, which could lead to damage to the building or facility.

Objective

OP1

Attributions

4.3.7.5.(1)(a) [F82-OP1.1] [F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of restricted access to tanks, valves and ancillary equipment in the containment space by employees for normal operation, maintenance or inspection, which could lead to defects or liquid escape going unnoticed, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of restricted access to tanks, valves and ancillary equipment in the containment space by emergency responders, which could lead to delays or impediment of their operations, which could lead to the spread of fire beyond the point of fire origin, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.3.7.5.(1)(a) [F82, F12-OH5]

Intent(s)

Intent 1. To limit the probability of restricted access to tanks, valves and ancillary equipment in the containment space by employees for normal operation, maintenance or inspection, which could lead to defects or liquid escape going unnoticed, which could lead to harm to the public.

Intent 2. To limit the probability of restricted access to tanks, valves and ancillary equipment in the containment space by emergency responders, which could lead to delays or impediment of their operations, which could lead to the spread of liquid beyond the point of liquid origin, which could lead to harm to the public.

Objective

OS3

Attributions

4.3.7.5.(1)(b) [F10-OS3.4]

Intent(s)

Intent 1. To limit the probability of restricting egress of emergency responders from the contained space in the event of the escape of liquid from the tank into the secondary containment area, which could lead to harm to persons.

Provision: 4.3.7.5.(2)

Objective

OS1

Attributions

[F12-OS1.1]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in controlling the escape of liquids from tanks, which could lead to the spread of liquid beyond the point of liquid origin, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.1]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in controlling the escape of liquids from tanks, which could lead to the spread of liquid beyond the point of liquid origin, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in controlling the escape of liquids from tanks, which could lead to the spread of liquid beyond the point of liquid origin, which could lead to harm to the public.

Provision: 4.3.7.6.(1)

Objective

OS1

Attributions

[F04-OS1.1]

Intent(s)

Intent 1. To limit the probability that exposure to fire will lead to excessive internal pressure in the contained space, which could lead to the failure of the tank assembly, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F04-OP1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that exposure to fire will lead to excessive internal pressure in the contained space, which could lead to the failure of the tank assembly, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.7.7.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the tank or the failure of the secondary containment will remain unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape of liquid outside of the containment, which could lead to the ignition of vapour by a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the tank or the failure of the secondary containment will remain unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape of liquid outside of the containment, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the tank or the failure of the secondary containment will remain unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape of liquid outside of the containment, which could lead to the ignition of vapour by a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.7.8.(1)

Objective

OS1

Attributions

[F81, F44-OS1.1] [F12-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability of reduced holding capacity or unavailability of the containment in an emergency, which could lead to the escape of liquid outside of the spill containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of delays or ineffectiveness in conducting firefighting or spill control operations, which could lead to the spread of fire beyond the point of fire origin, which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F02-OS1.1] Applies to the accumulation of liquids and debris.

Intent(s)

Intent 1. To limit the probability of creating a fire hazard near the storage tank, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F44-OH5]

Intent(s)

Intent 1. To limit the probability of reduced holding capacity or unavailability of the containment in an emergency, which could lead to the escape of liquid outside of the spill containment, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F44-OP1.1] [F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of reduced holding capacity or unavailability of the containment in an emergency, which could lead to the escape of liquid outside of the spill containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays or ineffectiveness in conducting firefighting or spill control operations, which could lead to the spread of fire beyond the point of fire origin, which could lead to damage to the building or facility.

Provision: 4.3.7.8.(2)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6.

Intent Statements: NFC 2010

Provision: 4.3.7.8.(3)

Objective

OS1

Attributions

4.3.7.8.(3)(a) [F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquids through the liquid removal system, which could lead to the spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.7.8.(3)(b), 4.3.7.8.(3)(c) [F12-OS1.1]

Intent(s)

Intent 1. To limit the probability of firefighters being delayed or impeded in gaining access to the controls, which could lead to overtopping or failure of the spill containment area during firefighting operations, which could lead to the spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.3.7.8.(3)(b), 4.3.7.8.(3)(c) [F12-OP1.1]

Intent(s)

Intent 1. To limit the probability of firefighters being delayed or impeded in gaining access to the controls, which could lead to overtopping or failure of the spill containment area during firefighting operations, which could lead to the spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OP1

Attributions

4.3.7.8.(3)(a) [F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquids through the liquid removal system, which could lead to the spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.3.7.8.(3)(a) [F44-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquids through the liquid removal system, which could lead to the spread of liquid outside of the secondary containment, which could lead to harm to the public.

Provision: 4.3.7.9.(1)

Objective

OS1

Attributions

[F81, F44, F01, F02-OS1.1] [F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of reduced holding capacity or unavailability of the containment in an emergency, which could lead to the escape of liquid outside of the spill containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of delays or ineffectiveness in conducting firefighting or spill control operations, which could lead to the spread of fire beyond the point of fire origin, which could lead to harm to persons.

Intent 3. To limit the probability of creating a fire hazard near the storage tank, which could lead to a fire exposure to the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81, F44, F01, F02-OP1.1] [F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of reduced holding capacity or unavailability of the containment in an emergency, which could lead to the escape of liquid outside of the spill containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays or ineffectiveness in conducting firefighting or spill control operations, which could lead to the spread of fire beyond the point of fire origin, which could lead to damage to the building or facility.

Intent 3. To limit the probability of creating a fire hazard near the storage tank, which could lead to a fire exposure to the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81, F44, F01, F02, F12-OH5]

Intent(s)

Intent 1. To limit the probability of reduced holding capacity or unavailability of the containment in an emergency, which could lead to the escape of liquid outside of the spill containment, which could lead to harm to the public.

Intent Statements: NFC 2010

Intent 2. To limit the probability of delays or ineffectiveness in conducting firefighting or spill control operations, which could lead to the spread of liquid beyond the point of liquid origin, which could lead to harm to the public.

Intent 3. To limit the probability of creating a fire hazard near the storage tank, which could lead to a fire exposure to the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.1.(1)

Objective

OH5

Attributions

[F43, F44-OH5]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the tank in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Intent 2. To direct Code users to Subsection 4.3.1.

Objective

OS3

Attributions

[F43, F44-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the tank in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Intent 2. To direct Code users to Subsection 4.3.1.

Objective

OS1

Attributions

[F01, F43, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the tank in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To direct Code users to Subsection 4.3.1.

Objective

OP1

Attributions

[F01, F43, F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the tank in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To direct Code users to Subsection 4.3.1.

Provision: 4.3.8.2.(1)

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that settlement or transmission of loads from a building foundation will lead to damage to an underground tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability that settlement or transmission of loads from a building foundation will lead to damage to an underground tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.2.(2)

Objective

OS1

Attributions

4.3.8.2.(2)(a) [F20, F21-OS1.1]

4.3.8.2.(2)(b) [F20, F21-OS1.1] Applies to the distance from a *building* foundation.

Intent(s)

Intent 1. To limit the probability that the movement of soil or adjacent tanks will lead to damage to the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OS1

Attributions

4.3.8.2.(2)(b) [F01-OS1.1] Applies to the distance from a *building* foundation.

Intent(s)

Intent 1. To limit the probability that a leak from the tank will migrate to or under an adjacent building, which could lead to the accumulation and subsequent ignition of vapour by a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.8.2.(2)(b) [F81-OS1.1] Applies to the distance from *street* lines.

4.3.8.2.(2)(c) [F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that excavation, construction work or vehicular traffic on adjacent property will lead to damage to the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

4.3.8.2.(2)(a) [F20, F21-OH5]

4.3.8.2.(2)(b) [F20, F21-OH5] Applies to the distance from a *building* foundation.

Intent(s)

Intent 1. To limit the probability that the movement of soil or adjacent tanks will lead to damage to the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

4.3.8.2.(2)(b) [F01-OP3.1] Applies to the distance from a *building* foundation.

Intent(s)

Intent 1. To limit the probability that a leak from the tank will migrate to or under an adjacent building, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the adjacent building.

Objective

OH5

Attributions

4.3.8.2.(2)(b) [F81-OH5] Applies to the distance from *street* lines.

4.3.8.2.(2)(c) [F81-OH5]

Intent(s)

Intent 1. To limit the probability that excavation, construction work or vehicular traffic on adjacent property will lead to damage to the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.3.(1)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that excessive external loading will lead to tank stress, which could lead to tank damage and failure, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that excessive external loading will lead to tank stress, which could lead to tank damage and failure, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.3.(2)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that excessive external loading will lead to tank stress, which could lead to tank damage and failure, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To override the requirements of Sentence 4.3.8.3.(1) in order to require improved protection where heavier and more stressful loads [vehicular traffic] are expected.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that excessive external loading will lead to tank stress, which could lead to tank damage and failure, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Intent 2. To override the requirements of Sentence 4.3.8.3.(1) in order to provide improved protection where heavier and more stressful loads [vehicular traffic] are expected.

Provision: 4.3.8.3.(3)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that excessive external loading will lead to tank stress, which could lead to tank damage and failure, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To override the requirements of Sentences 4.3.8.3.(1) and 4.3.8.3.(2) and permit reduced depth of coverage if adequate alternative protection [concrete slab] is provided.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that excessive external loading will lead to tank stress, which could lead to tank damage and failure, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Intent 2. To override the requirements of Sentences 4.3.8.3.(1) and 4.3.8.3.(2) and permit reduced depth of coverage if adequate alternative protection [concrete slab] is provided.

Provision: 4.3.8.3.(4)

Objective

OS1

Attributions

[F81, F04, F20-OS1.1]

Intent(s)

Intent 1. To remove the requirement in Sentence 4.3.8.3.(1) for underground tanks to be totally below adjacent ground level if certain conditions exist [subsurface conditions make it impracticable and adequate ground cover is provided over the portion of the tank above adjacent ground level].

This is to limit the probability of tank fire exposure and mechanical damage, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that excessive external loading will lead to tank stress, which could lead to tank damage and failure, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. This also permits an unburied [aboveground] tank to be treated as an underground tank.

Objective

OH5

Attributions

[F81, F04, F20-OH5]

Intent(s)

Intent 1. To remove the requirement in Sentence 4.3.8.3.(1) for underground tanks to be totally below adjacent ground level if certain conditions exist [subsurface conditions make it impracticable and adequate ground cover is provided over the portion of the tank above adjacent ground level].

This is to limit the probability of tank fire exposure and mechanical damage, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that excessive external loading will lead to tank stress, which could lead to tank damage and failure, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Intent 3. This also permits an unburied [aboveground] tank to be treated as an underground tank.

Provision: 4.3.8.4.(1)

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that damage to the corrosion protection coating or anodes will lead to the premature corrosion of the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that damage to the corrosion protection coating or anodes will lead to the premature corrosion of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.3.8.4.(2)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that repairs that would not meet the standards to which tanks have been manufactured will lead to premature tank failure, which could lead to the escape and spread of liquid,

Intent Statements: NFC 2010

which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that repairs that would not meet the standards to which tanks have been manufactured will lead to premature tank failure, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.5.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of damage to the tank shell or the corrosion protection coating, which could lead to the premature corrosion of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability of damage to the tank shell or the corrosion protection coating, which could lead to the premature corrosion of the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.5.(2)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of damage to the corrosion protection coating, which could lead to premature corrosion of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability of damage to the corrosion protection coating, which could lead to premature corrosion of the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.6.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of damage to:

- the corrosion protection system, which could lead to premature corrosion and failure of the tank, and
- the tank shell and fittings, which could lead to premature failure of the tank.

This is to limit the probability of the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability of damage to:

- the corrosion protection system, which could lead to premature corrosion and failure of the tank, and
- the tank shell and fittings, which could lead to premature failure of the tank.

This is to limit the probability of the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.6.(2)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of damage to the tank shell and fittings, which could lead to premature failure of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability of damage to the tank shell and fittings, which could lead to premature failure of the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.6.(3)

Objective

OS1

Attributions

[F20-OS1.1]

Intent(s)

Intent 1. To limit the probability of excessive point loading, which could lead to damage and failure of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20-OH5]

Intent(s)

Intent 1. To limit the probability of excessive point loading, which could lead to damage and failure of the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.7.(1)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of improperly installed fittings and connections, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability of improperly installed fittings and connections, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.8.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6.

Provision: 4.3.8.9.(1)

Objective

OS1

Attributions

[F22-OS1.1]

Intent(s)

Intent 1. To limit the probability that buoyant forces will lead to a tank being lifted out of the ground, which could lead to damage and failure of the tank or its fittings, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F22-OH5]

Intent(s)

Intent 1. To limit the probability that buoyant forces will lead to a tank being lifted out of the ground, which could lead to damage and failure of the tank or its fittings, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.8.9.(2)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of damage to the tank's shell or protective coating, which could lead to the premature corrosion of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability of damage to the tank's shell or protective coating, which could lead to the premature corrosion of the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.9.1.(1)

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability of the spread of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Objective

OS3

Attributions

[F44-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of the spread of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of the spread of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.9.1.(2)

Objective

OH5

Attributions

[F43, F44-OH5]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the time of filling, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Objective

OS3

Attributions

[F43, F44-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the time of filling, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F43, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the time of filling, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F43, F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the time of filling, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.3.9.1.(3)

Objective

OH5

Attributions

[F43, F44-OH5]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the mechanical connection, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Objective

OS3

Attributions

[F30, F43, F44-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the mechanical connection, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F43, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the mechanical connection, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F43, F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the mechanical connection, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.9.1.(4)

Objective

OH5

Attributions

[F44, F82-OH5]

Intent(s)

Intent 1. To limit the probability that the turbine will not operate as originally intended due to improper maintenance or lack of maintenance, which could lead to escape and spread of flammable liquids and combustible liquids, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Objective

OS3

Attributions

[F44, F82-OS3.4]

Intent(s)

Intent 1. To limit the probability that the turbine will not operate as originally intended due to improper maintenance or lack of maintenance, which could lead to escape and spread of flammable liquids and combustible liquids, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F44, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the turbine will not operate as originally intended due to improper maintenance or lack of maintenance, which could lead to escape and spread of flammable liquids and combustible liquids, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F44, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the turbine will not operate as originally intended due to improper maintenance or lack of maintenance, which could lead to escape and spread of flammable liquids and combustible liquids, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.9.1.(5)

Intent Statements: NFC 2010

Intent(s)

Intent 1. To clarify the installation requirements for sumps referred to in Sentences 4.3.9.1.(1) to 4.3.9.1.(4).

Provision: 4.3.10.1.(1)

Objective

OS1

Attributions

[F80-OS1.1]

Intent(s)

Intent 1. To limit the probability of the premature corrosion of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F80-OH5]

Intent(s)

Intent 1. To limit the probability of the premature corrosion of the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.3.10.2.(1)

Objective

OH5

Attributions

[F20, F44, F80, F81-OH5]

Intent(s)

Intent 1. To limit the probability of the spread of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Objective

OS3

Attributions

[F20, F44, F80, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F20, F44, F80, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of the spread of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F20, F44, F80, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability of the spread of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.10.2.(2)

Objective

OH5

Attributions

[F20, F44, F80, F81-OH5]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the time of filling, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Objective

OS3

Attributions

[F20, F44, F80, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the time of filling, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F01, F20, F44, F80, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the time of filling, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F20, F44, F80, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the time of filling, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.10.3.(1)

Objective

OS1

Attributions

[F43, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the tank or the failure of the secondary containment will remain unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape of liquid outside of the containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS3

Attributions

[F43, F82-OS3.4]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the tank or the failure of the secondary containment will remain unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape of liquid outside of the containment, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OP1

Attributions

[F43, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the tank or the failure of the secondary containment will remain unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape of liquid outside of the containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43, F82-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the tank or the failure of the secondary containment will remain unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape of liquid outside of the containment, which could lead to harm to the public.

Provision: 4.3.11.1.(1)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid entering or leaving the tank will lead to an excessive internal tank vacuum or pressure, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour by a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that liquid entering or leaving the tank will lead to an excessive internal tank vacuum or pressure, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.11.2.(1)

Intent(s)

Intent 1. To direct Code users to Subsections 4.5.2., Subsection 4.5.3. and 4.5.5.

Intent Statements: NFC 2010

Provision: 4.3.11.3.(1)

Objective

OS1

Attributions

4.3.11.3.(1)(a), 4.3.11.3.(1)(a)(i), 4.3.11.3.(1)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the accumulation and subsequent ignition of vapour near buildings by outdoor ignition sources, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.11.3.(1)(a) [F43-OS1.1] Applies to the vent pipe outlets being higher than the fill pipe openings.

Intent(s)

Intent 1. To limit the probability that Class I liquids will escape through the vent opening during filling operations if the tank is overfilled, which could lead to the accumulation of vapour and their subsequent ignition by a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.11.3.(1)(a), 4.3.11.3.(1)(a)(iii) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour released through underground tank vent pipes will come in contact with ignition sources likely to be present near dispensers, such as motor vehicles being refuelled, which could lead to the ignition of the vapour, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.11.3.(1)(a), 4.3.11.3.(1)(a)(ii), 4.3.11.3.(1)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the release of vapour in--or the re-entry of vapour into--the building, which could lead to the accumulation and subsequent ignition of vapour, which could lead to harm to persons in the building.

Objective

OH5

Attributions

4.3.11.3.(1)(a) [F43-OH5] Applies to the vent pipe outlets being higher than the fill pipe openings.

Intent(s)

Intent 1. To limit the probability that Class I liquids will escape through the vent opening during filling operations if the tank is overfilled, which could lead to harm to the public.

Provision: 4.3.11.3.(2)

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: “Vent pipe outlets from underground *storage tanks* for Class II or IIIA liquids shall be located outside *buildings* ...”

Intent(s)

Intent 1. To limit the probability that vapour from underground tank vent pipes will be released inside a building, which could lead to the ignition of the vapour by a nearby ignition source inside the building, which could lead to harm to persons inside the building.

Objective

OS1

Attributions

[F43-OS1.1] Applies to the requirement for vent pipe outlets to be located outside *buildings* at a height that is above the fill pipe opening.

Intent(s)

Intent 1. To limit the probability that Class II or IIIA liquids will escape through the vent opening during filling operations if the tank is overfilled, which could lead to the accumulation of vapour and their subsequent ignition by a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

[F01-OS1.1] Applies to the requirement for vent pipe outlets to be located outside *buildings* at not less than 2 m above finished ground level.

Intent(s)

Intent 1. To limit the probability of the accumulation and subsequent ignition of vapour near buildings by outdoor ignition sources, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5] Applies to the requirement for the vent pipe outlets to be located outside *buildings* at a height that is above the fill pipe opening.

Intent(s)

Intent 1. To limit the probability that Class II or IIIA liquids will escape through the vent opening during filling operations if the tank is overfilled, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.3.11.3.(3)

Objective

OS1

Attributions

[F20, F81-OS1.1] Applies to the requirement for vent pipes to not be obstructed by any device that may cause excessive back pressure.

Intent(s)

Intent 1. To limit the probability that filling operations will lead to overpressurization or back pressure in the tank, which could lead to failure of the tank and the escape of liquid--or blowback of liquid or vapour at the fill opening--which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5] Applies to the requirement for vent pipes to not be obstructed by any device that may cause excessive back pressure.

Intent(s)

Intent 1. To limit the probability that filling operations will lead to overpressurization or back pressure in the tank, which could lead to failure of the tank and the escape of liquid--or blowback of liquid at the fill opening--which could lead to harm to the public.

Intent(s)

Intent 1. To exempt certain devices in order to limit the probability of the entry of foreign material.

Provision: 4.3.11.3.(4)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that blocking or obstruction of the vent pipe by liquid will lead to overpressurization or back pressure, which could lead to failure of the tank and the escape of liquid--or blowback of liquid or vapour at the fill opening--which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that blocking or obstruction of the vent pipe by liquid will lead to over-pressurization or back pressure, which could lead to failure of the tank and the escape of liquid--or blowback of liquid at the fill opening--which could lead to harm to the public.

Provision: 4.3.11.3.(5)

Objective

OS1

Attributions

4.3.11.3.(5)(a), 4.3.11.3.(5)(b), 4.3.11.3.(5)(c) [F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that blocking or obstruction of the vent pipe by liquid will lead to over-pressurization or back pressure, which could lead to failure of the tank and the escape of liquid--or blowback of liquid or vapour at the fill opening--which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.11.3.(5)(d) [F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape through a damaged vent pipe, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

4.3.11.3.(5)(a), 4.3.11.3.(5)(b), 4.3.11.3.(5)(c) [F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability that blocking or obstruction of the vent pipe by liquid will lead to over-pressurization or back pressure, which could lead to failure of the tank and the escape of liquid--or blowback of liquid at the fill opening--which could lead to harm to the public.

Objective

OH5

Attributions

4.3.11.3.(5)(d) [F81-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape through a damaged vent pipe, which could lead to harm to the public.

Provision: 4.3.11.3.(6)

Intent(s)

Intent Statements: NFC 2010

Intent 1. To direct Code users to Clause 4.4.1.2.(1)(a).

Provision: 4.3.11.4.(1)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that simultaneous filling of connected tanks will lead to overpressurization in the tanks, which could lead to failure of the tanks and the escape of liquid--or blowback of liquid or vapour at the fill opening--which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that simultaneous filling of connected tanks will lead to overpressurization in the tanks, which could lead to failure of the tanks and the escape of liquid--or blowback of liquid at the fill opening--which could lead to harm to the public.

Provision: 4.3.11.4.(2)

Objective

OS1

Attributions

[F20-OS1.1]

Intent(s)

Intent 1. To remove certain tanks from the application of Sentence 4.3.11.4.(1) and to size vent piping according to the maximum possible vapour flow if it is not possible to fill the connected tanks simultaneously, or the connected vents have a vapour recovery system.

This is to limit the probability of excessive internal tank pressure, which could lead to failure of the tanks and the escape of liquid--or blowback of liquid or vapour at the fill opening--which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20-OH5]

Intent(s)

Intent 1. To remove certain tanks from the application of Sentence 4.3.11.4.(1) and to size vent piping according to the maximum possible vapour flow if it is not possible to fill the connected tanks simultaneously, or the connected vents have a vapour recovery system.

This is to limit the probability of excessive internal tank pressure, which could lead to failure of the tanks and the escape of liquid--or blowback of liquid at the fill opening--which could lead to harm to the public.

Provision: 4.3.11.4.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the contamination of Class II or IIIA liquid vapours with Class I liquid vapours, which could lead to an increase in the fire hazard of the tank containing Class II or IIIA liquids, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.3.12.1.(1)

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape through connection openings, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape through connection openings, which could lead to harm to the public.

Provision: 4.3.12.2.(1)

Objective

OS1

Attributions

[F43, F01, F81, F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape through the opening, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Intent 2. To limit the probability of tampering or entry of foreign objects into the tank, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To limit the probability of entry of precipitation into the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F81, F34-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape through the opening, which could lead to harm to the public.

Intent 2. To limit the probability of entry of precipitation into the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.12.3.(1)

Objective

OS1

Attributions

[F43-OS1.1] Applies to portion of Code text: "Fill piping and discharge piping shall enter underground *storage tanks* only through the top of the tank ..."

Intent(s)

Intent 1. To limit the probability that liquid will escape through leaking connections, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

[F43-OS1.1] Applies to portion of Code text: "... discharge piping used in suction systems shall be sloped toward the *storage tanks*."

Intent(s)

Intent 1. To limit the probability that liquid trapped in the discharge pipe will lead to the escape of liquid and vapour, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5] Applies to portion of Code text: "Fill piping and discharge piping shall enter underground *storage tanks* only through the top of the tank ..."

Intent(s)

Intent 1. To limit the probability that liquid will escape through leaking connections, which could lead to harm to the public.

Objective

OH5

Attributions

[F43-OH5] Applies to portion of Code text: "... discharge piping used in suction systems shall be sloped toward the *storage tanks*".

Intent(s)

Intent 1. To limit the probability that liquid trapped in the discharge pipe will lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.12.3.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will escape through tank openings during filling operations if the tank is overfilled, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape through tank openings during filling operations if the tank is overfilled, which could lead to harm to the public.

Provision: 4.3.12.3.(3)

Objective

OS1

Attributions

4.3.12.3.(3)(a), 4.3.12.3.(3)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the accumulation and subsequent ignition of vapour near buildings by outdoor ignition sources, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.12.3.(3)(a), 4.3.12.3.(3)(c) [F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability of the release of vapour in--or the re-entry of vapour into--the building, which could lead to the accumulation and subsequent ignition of vapour, which could lead to harm to persons in the building.

Provision: 4.3.12.3.(4)

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape through openings, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape through openings, which could lead to harm to the public.

Provision: 4.3.12.3.(5)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To remove the requirement in Sentence 4.3.12.3.(3) for filling connections to be located outdoors if:

- certain conditions exist [the tank is directly associated to a process or activity located indoors, or is used for the collection of used liquids], and
- measures are taken to minimize the accumulation of vapour inside the building.

This is to limit the probability of the ignition of vapour from a nearby ignition source inside the building, which could lead to harm to persons inside the building.

Provision: 4.3.12.3.(6)

Objective

OH5

Attributions

4.3.12.3.(6)(a) [F43, F44, F82-OH5]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the remote fill piping system at the time of filling in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Objective

OS3

Attributions

4.3.12.3.(6)(a) [F43, F44, F82-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the remote fill piping system at the time of filling in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.12.3.(6)(a) [F01, F43, F44, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the remote fill piping system at the time of filling in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.3.12.3.(6)(a) [F01, F43, F44, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the remote fill piping system at the time of filling in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OS1

Attributions

4.3.12.3.(6)(b) [F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that flammable liquid and combustible liquid trapped in the filling pipe will lead to the escape of liquid and vapour, which could lead to the ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

4.3.12.3.(6)(b) [F01, F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that flammable liquid and combustible liquid trapped in the filling pipe will lead to the escape of liquid and vapour, which could lead to the ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.3.12.3.(6)(b) [F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of trapped flammable liquids and combustible liquids after filling, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Objective

OS3

Attributions

4.3.12.3.(6)(c) [F43, F44, F82-OS3.4]

Intent(s)

Intent 1. To limit the probability that the escape of flammable liquids and combustible liquids from the remote fill piping system will remain unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape of liquid outside of the containment, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OP1

Attributions

4.3.12.3.(6)(c) [F01, F43, F44, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of flammable liquids and combustible liquids from the remote fill piping system will remain unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape of liquid outside of the containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OP1

Attributions

4.3.12.3.(6)(c) [F43, F44, F82-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of flammable liquids and combustible liquids from the remote fill piping system will remain unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape of liquid outside of the containment, which could lead to harm to the public.

Provision: 4.3.12.3.(7)

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will escape through tank openings during filling operations, which could lead to contamination of the soil, which could lead to contamination of the water table or body of water, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS3

Attributions

[F01, F43-OS3.4]

Intent(s)

Intent 1. To limit the probability that liquid will escape through tank openings during filling operations, which could lead to contamination of the soil, which could lead to contamination of the water table or body of water, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OH5

Attributions

[F01, F43-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape through tank openings during filling operations, which could lead to contamination of the soil, which could lead to contamination of the water table or body of water, which could lead to harm to the public.

Provision: 4.3.13.1.(1)

Objective

OS1

Attributions

[F01, F02-OS1.1]

Intent(s)

Intent 1. To limit the probability that the presence of a storage tank will lead to a fire hazard in occupancies where this is not necessitated by an industrial process or operation or by the presence of oil-burning equipment, emergency generators or fire pumps, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F01, F02-OP1.1]

Intent(s)

Intent 1. To limit the probability that the presence of a storage tank will lead to a fire hazard in occupancies where this is necessitated by an industrial process or operation or by the presence of oil-burning equipment, emergency generators or fire pumps, which could lead to damage to building.

Attributions

4.3.13.1.(1)(a)

Intent(s)

Intent 1. To state the application of Subsections 4.3.13. to 4.3.15.

Provision: 4.3.13.2.(1)

Objective

OS1

Attributions

[F01, F02, F03, F04, F43, F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that a storage tank will lead to a fire hazard, which could lead to harm to persons.

Intent 2. To remove the prohibition of storage tanks in any buildings other than industrial occupancies [as stated in Sentence 4.3.13.1.(1)] if measures are taken to limit the fire hazard created by the tank.

Provision: 4.3.13.3.(1)

Objective

OS1

Attributions

[F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that excessive internal pressure will lead to failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To exempt certain tanks from the application of this Sentence if they are designed for pressures greater than 70 kPa (gauge).

Objective

OH5

Attributions

[F20-OH5]

Intent(s)

Intent 1. To limit the probability that excessive internal pressure will lead to failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To exempt certain tanks from the application of this Sentence if they are designed for pressures greater than 70 kPa (gauge).

Provision: 4.3.13.4.(1)

Objective

OS1

Attributions

4.3.13.4.(1)(b) [F01-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability of the release of vapour in low areas of a building, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that a tank fire will spread outside of the storage room, which could lead to harm to persons.

Objective

OP1

Attributions

4.3.13.4.(1)(b) [F01-OP1.1] [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability of the release of vapour in low areas of a building, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building.

Intent 2. To limit the probability that a tank fire will spread outside of the storage room, which could lead to damage to the building.

Attributions

4.3.13.4.(1)(a)

Intent(s)

Intent 1. To state part of the application of Subsection 4.3.14.

Provision: 4.3.13.4.(2)

Attributions

4.3.13.4.(2)(c)

Intent(s)

Intent 1. To state the application of Article 4.3.13.9. and to expand the application of Article 4.3.14.4.

Intent 2. To direct Code users to Article 4.3.13.10. to 4.3.13.12.

Intent(s)

Intent Statements: NFC 2010

Intent 1. To remove the requirement in Sentence 4.3.13.4.(1) for tanks to be located in a dedicated storage room if:

- the tanks are located on the first storey where manual firefighting operations are not as likely to be delayed or impeded,
- limited to only certain special process operations and quantities [quantities greater than those permitted in Sentences 4.2.8.2.(1) and 4.2.8.2.(2) but not exceeding 50% of those permitted in Table 4.3.13.4.-A for a single class of liquid], and
- the installation meets certain requirements [in conformance with Articles 4.3.13.9. to 4.3.13.12. and 4.3.14.4.].

Provision: 4.3.13.5.(1)

Objective

OS1

Attributions

4.3.13.5.(1)(a) [F01, F20, F43, F80, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from the tank, which could lead to the release and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.3.13.5.(1)(a) [F01, F20, F43, F80, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from the tank, which could lead to the release and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OS1

Attributions

4.3.13.5.(1)(b) [F01, F43, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

4.3.13.5.(1)(b) [F01, F43, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to damage to the building.

Attributions

4.3.13.5.(1)(b)

Intent(s)

Intent 1. To direct code users to Sentence 4.4.2.1.(7)

Objective

OH5

Attributions

4.3.13.5.(1)(b) [F20, F43, F80, F81-OH5]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.3.13.5.(2)

Attributions

4.3.13.5.(2)(a)

Intent(s)

Intent 1. To direct code users to Clause 4.3.1.2.(1)(l).

Objective

OS1

Attributions

4.3.13.5.(2)(b) [F01, F43, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

4.3.13.5.(2)(b) [F01, F43, F82-OP1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Attributions

4.3.13.5.(2)(b)

Intent(s)

Intent 1. To direct code users to Sentence 4.4.2.1.(7)

Objective

OH5

Attributions

4.3.13.5.(2)(b) [F20, F43, F80, F81-OH5]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.3.13.6.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of liquid from piping systems, which could lead to the ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of liquid from piping systems, which could lead to the ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.3.13.7.(1)

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving tanks will spread outside of the area of fire origin, which could lead to damage to the building.

Intent 2. To limit the probability that activities in other parts of the building will lead to a fire exposure to the tanks, which could lead to the spread of fire to the tanks, which could lead to damage to the building.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving tanks will spread outside of the area of fire origin, which could lead to harm to persons in other parts of the building.

Provision: 4.3.13.8.(1)

Objective

OS1

Attributions

[F01-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability of the release of vapour in low areas of a building, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that a tank fire will spread outside of the storage room, which could lead to harm to persons.

Intent 3. To clarify what quantity limits apply to a storage situation for which there would otherwise be no applicable requirements in Table 4.3.13.4.-A referenced in Sentence 4.3.13.4.(1).

Objective

OP1

Attributions

[F01-OP1.1] [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability of the release of vapour in low areas of a building, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building.

Intent Statements: NFC 2010

Intent 2. To limit the probability that a tank fire will spread outside of the storage room, which could lead to damage to the building.

Intent 3. To clarify what quantity limits apply to a storage situation for which there would otherwise be no applicable requirements in Table 4.3.13.4.-A referenced in Sentence 4.3.13.4.(1).

Provision: 4.3.13.9.(1)

Objective

OS1

Attributions

4.3.13.9.(1)(a) [F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that overtopping of the spill containment area will lead to the spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To waive the 10% safety factor required in Sentences 4.3.7.3.(1) and 4.3.7.3.(2) for indoor storage tanks for flammable liquids and combustible liquids permitted to be located outside of a storage room.

Objective

OP1

Attributions

4.3.13.9.(1)(a) [F44-OP1.1]

Intent(s)

Intent 1. To limit the probability that overtopping of the spill containment area will lead to the spread of liquid outside of the secondary containment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building.

Intent 2. To waive the 10% safety factor required in Sentences 4.3.7.3.(1) and 4.3.7.3.(2) for indoor storage tanks for flammable liquids and combustible liquids permitted to be located outside of a storage room.

Objective

OH5

Attributions

4.3.13.9.(1)(a) [F44-OH5]

Intent(s)

Intent 1. To limit the probability that overtopping of the spill containment area will lead to the spread of liquid outside of the secondary containment, which could lead to harm to the public.

Intent 2. To waive the 10% safety factor required in Sentences 4.3.7.3.(1) and 4.3.7.3.(2) for indoor storage tanks for flammable liquids and combustible liquids permitted to be located outside of a storage room.

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will accumulate and be subsequently ignited from a nearby ignition source, which could lead to harm to persons.

Provision: 4.3.13.10.(1)

Intent(s)

Intent 1. To direct Code users to Subsections 4.3.4. and 4.3.5.

Provision: 4.3.13.10.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To exclude a certain type of emergency venting that discharges inside a building.

This is to limit the probability of the release of vapour, which could lead to the ignition of vapour from a nearby ignition source inside the building, which could lead to harm to persons inside the building.

Provision: 4.3.13.11.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.3.3.

Provision: 4.3.13.11.(2)

Objective

OS1

Attributions

[F22, F81, F20, F80, F04-OS1.1]

Intent(s)

Intent 1. To permit suspended tanks to be used if the supports offer an equivalent level of safety [as conventional supports for tanks located on floors or the ground] by meeting all the performance objectives stated in Subsection 4.3.3.

This is to limit the probability of:

- excessive movement of the tank,
- premature corrosion of the tank,
- failure of the supports caused by fire exposure, and
- structural failure of the supports caused by tank loading.

This is to limit the probability of the failure of the tank and associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F22, F81, F04, F80, F20-OH5]

Intent(s)

Intent 1. To permit suspended tanks to be used if the supports offer an equivalent level of safety [as conventional supports for tanks located on floors or the ground] by meeting all the performance objectives stated in Subsection 4.3.3.

This is to limit the probability of:

- excessive movement of the tank,
- premature corrosion of the tank,
- failure of the supports caused by fire exposure, and
- structural failure of the supports caused by tank loading.

This is to limit the probability of the failure of the tank and associated piping, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.13.12.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the buildup of static electric charges during the transfer of flammable liquids and combustible liquids from or into the tank, which could lead to sparks, which could lead to the ignition of vapour, which could lead to harm to persons.

Provision: 4.3.14.1.(1)

Objective

OP1

Attributions

4.3.14.1.(1)(a) [F03-OP1.2]

Intent(s)

Intent 1. To limit the probability of the spread of a fire involving the tank to other parts of the building and of activities in other parts of the building creating a fire exposure hazard to the tank, which could lead to damage to the building.

Objective

OS1

Attributions

4.3.14.1.(1)(a) [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the tank will spread outside of the room, which could lead to harm to persons in other parts of the building.

Objective

OS1

Attributions

4.3.14.1.(1)(c) [F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability of the escape of liquids through wall-to-floor joints, which could lead to the accumulation of vapour in ignitable concentrations outside of the room, which could lead to the ignition of vapour by a nearby ignition source, which could lead to a fire and to the spread of fire outside of the storage room, which could lead to harm to persons.

Objective

OS1

Attributions

4.3.14.1.(1)(b) [F44-OS1.1] Applies to portion of Code text: "... designed to contain 100% of the volume of the largest *storage tank* ..."

Intent(s)

Intent 1. To limit the probability of the overtopping of the spill containment area, which could lead to the spread of flammable liquids and combustible liquids outside that area, which could lead to the accumulation of vapour in ignitable concentrations, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To waive the 10% safety factor required in Sentences 4.3.7.3.(1) and 4.3.7.3.(2) for indoor storage tanks for flammable liquids and combustible liquids in a storage room required in Sentence 4.3.13.4.(1).

Objective

OH5

Attributions

4.3.14.1.(1)(c) [F44-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquids through wall-to-floor joints, which could lead to harm to the public.

Objective

OP1

Attributions

4.3.14.1.(1)(c) [F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability of the escape of liquids through wall-to-floor joints, which could lead to the accumulation of vapour in ignitable concentrations outside of the room, which could lead to the ignition of vapour by a nearby ignition source, which could lead to a fire and to the spread of fire outside of the storage room, which could lead to damage to the building.

Intent Statements: NFC 2010

Objective

OP1

Attributions

4.3.14.1.(1)(b) [F44-OP1.1] Applies to portion of Code text: "... designed to contain 100% of the volume of the largest *storage tank* ..."

Intent(s)

Intent 1. To limit the probability of the overtopping of the spill containment area, which could lead to the spread of flammable liquids and combustible liquids outside that area, which could lead to the accumulation of vapour in ignitable concentrations, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building.

Intent 2. To waive the 10% safety factor required in Sentences 4.3.7.3.(1) and 4.3.7.3.(2) for indoor storage tanks for flammable liquids and combustible liquids in a storage room required in Sentence 4.3.13.4.(1).

Objective

OH5

Attributions

4.3.14.1.(1)(b) [F44-OH5] Applies to portion of Code text: "... designed to contain 100% of the volume of the largest *storage tank* ..."

Intent(s)

Intent 1. To limit the probability of the overtopping of the spill containment area, which could lead to the spread of flammable liquids and combustible liquids outside that area, which could lead to harm to the public.

Intent 2. To waive the 10% safety factor required in Sentences 4.3.7.3.(1) and 4.3.7.3.(2) for indoor storage tanks for flammable liquids and combustible liquids in a storage room required in Sentence 4.3.7.3.(1).

Attributions

4.3.14.1.(1)(d)

Intent(s)

Intent 1. To clarify the application of Subsection 4.3.14. and restrict the handling of flammable liquids and combustible liquids to the product in the tank (from and into the tank) and not to permit the room to be used for general dispensing or handling of such materials, which could lead to a fire hazard to the tanks.

Attributions

4.3.14.1.(1)(d)

Intent(s)

Intent 1. To clarify the application of Subsection 4.3.14. and state that a tank storage room shall not be used for container storage of flammable liquids and combustible liquids or for any use [other than tank storage] that could result in a fire hazard to the tanks.

Provision: 4.3.14.2.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the tank will go unnoticed, which could lead to the accumulation of vapour in ignitable concentrations, which could lead to the ignition of vapour from nearby ignition sources, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the tank will go unnoticed, which could lead to the spread of liquid beyond the point of liquid origin, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the tank will go unnoticed, which could lead to the accumulation of vapour in ignitable concentrations, which could lead to the ignition of vapour from nearby ignition sources, which could lead to damage to the building.

Provision: 4.3.14.3.(1)

Objective

OS1

Attributions

[F02-OS1.3]

Intent(s)

Intent 1. To limit the probability that a vapour explosion in the storage room will lead to critical structural and mechanical damage to the building, which could lead to harm to persons in other parts of the building.

Objective

OP1

Attributions

[F02-OP1.3]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that a vapour explosion in the storage room will lead to critical structural and mechanical damage to the building, which could lead to damage to building or facility due to fire or explosion.

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent 1. To limit the probability that deflagration in a room will lead to critical structural and mechanical damage to a building, which could lead to damage to an adjacent building or facility due to fire or explosion.

Provision: 4.3.14.4.(1)

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability that escaped liquid will spread outside of the spill area, which could lead to the accumulation of vapour in ignitable concentrations, which could lead to the ignition of vapour from nearby ignition sources, which could lead to damage to the building.

Objective

OH5

Attributions

[F44-OH5] Applies to portion of Code text: "... shall be provided in the vicinity of the storage room, such that all parts of the room are within reach of a hose stream."

Intent(s)

Intent 1. To limit the probability that escaped liquid will spread outside of the spill area, which could lead to harm to the public.

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that escaped liquid will spread outside of the spill area, which could lead to the accumulation of vapour in ignitable concentrations, which could lead to the ignition of vapour from nearby ignition sources, which could lead to harm to persons.

Provision: 4.3.14.4.(2)

Intent(s)

Intent 1. To direct Code users to Subsection 2.1.5. and Sentence 6.2.1.1.(1).

Provision: 4.3.14.5.(1)

Objective

OS1

Attributions

[F81-OS1.1] [F12-OS1.2] Applies to the information to be included in the fire safety plan.

Intent(s)

Intent 1. To limit the probability of unsafe storage and handling practices, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OS1

Attributions

[F12-OS1.2] Applies to the posting of placards in a conspicuous location outside of the room.

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2] Applies to the posting of placards in a conspicuous location outside of the room.

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OP1

Attributions

[F81-OP1.1] [F12-OP1.2] Applies to the information being included in the fire safety plan.

Intent(s)

Intent 1. To limit the probability of unsafe storage and handling practices, which could lead to a fire or explosion, which could lead to damage to the building.

Intent 2. To limit the probability of delays or ineffectiveness in conducting firefighting operations, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent(s)

Intent 1. To expand the application of Article 3.2.7.14.

Intent Statements: NFC 2010

Provision: 4.3.15.1.(1)

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid or vapour through connection openings, which could lead to the accumulation of vapour and subsequent ignition from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid through connection openings, which could lead to harm to the public.

Provision: 4.3.15.1.(2)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that damage or malfunction of tank-associated piping will lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that damage or malfunction of tank-associated piping will lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability that damage or malfunction of tank-associated piping will lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building.

Provision: 4.3.15.2.(1)

Objective

OS1

Attributions

[F43, F01, F81, F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape through the opening, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of tampering or entry of foreign objects into the tank, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability of entry of precipitation into the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F81-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape through the opening, which could lead to harm to the public.

Intent 2. To limit the probability of entry of precipitation into the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.15.2.(2)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that pressure surges in the tank will lead to damage to the vapour-tight cap, which could lead to the escape of liquid or vapour through these damaged openings, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that pressure surges in the tank will lead to damage to the vapour-tight cap, which could lead to the escape of liquid through these damaged openings, which could lead to harm to the public.

Provision: 4.3.16.1.(1)

Objective

OS1

Attributions

[F82, F01, F43, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from tanks will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that vandalism, tampering or unwanted dispensing or use will lead to the escape of liquid or vapour, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82, F81-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from tanks will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that vandalism, tampering or unwanted dispensing will lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.16.2.(1)

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that vandalism, tampering or unwanted dispensing will lead to the escape of liquid or vapour, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F34-OH5]

Intent(s)

Intent 1. To limit the probability that vandalism, tampering or unwanted dispensing will lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.16.2.(2)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from tanks will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from tanks will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from tanks will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.3.16.2.(3)

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid or vapour, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid, which could lead to harm to the public.

Provision: 4.3.16.3.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that tanks will be reused and then deteriorate or fail, which could lead to the escape of liquid or vapour, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that tanks will be reused and then deteriorate or fail, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.3.16.4.(1)

Objective

OS1

Attributions

[F01, F43, F81, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the piping system will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that vandalism, tampering or unwanted dispensing or use will lead to the escape of liquid or vapour, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F81, F82-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from the piping system will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that vandalism, tampering or unwanted dispensing will lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.4.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 4.4.

Provision: 4.4.1.1.(2)

Intent(s)

Intent 1. To exempt storage tanks that have been taken out of service in compliance with Subsection 4.3.16. from the requirements of Section 4.4.

Intent 2. To direct Code users to Subsection 4.3.16.

Provision: 4.4.1.2.(1)

Intent(s)

Intent 1. To direct Code users to Table 4.4.1.2.-A to Table 4.4.1.2.-E

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.4.1.2.(2)

Intent(s)

Intent 1. To direct Code users to Subsections 4.4.2. to 4.4.4.

Provision: 4.4.1.2.(3)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.4.1.2.(4)

Intent(s)

Intent 1. To clarify the date from which the frequency of the in-service monitoring is to be calculated.

Provision: 4.4.1.2.(5)

Intent(s)

Intent 1. To state the application of Sentence 4.4.1.2.(1) in the event there is evidence of a loss of liquid or a gain of water in the storage tank, sump or piping system.

Provision: 4.4.1.2.(6)

Objective

OS3

Attributions

[F43, F44-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F43, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F43, F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids, which could lead to contamination of the soil, which could lead to contamination of the water table,

Intent Statements: NFC 2010

which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent(s)

Intent 1. To direct Code users to Sentence 4.3.10.3.(1).

Provision: 4.4.1.2.(7)

Intent(s)

Intent 1. To clarify that the testing and monitoring requirements identified in this Section should not preclude the use of new technologies.

Provision: 4.4.1.3.(1)

Objective

OS1

Attributions

[F01, F44, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that appropriate measures will not be taken on leaking storage tanks, sumps or piping systems, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F44, F82-OH5]

Intent(s)

Intent 1. To limit the probability that appropriate measures will not be taken on leaking storage tanks, sumps or piping systems, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F01, F44, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that appropriate measures will not be taken on leaking storage tanks, sumps or piping systems, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.4.1.3.(2)

Intent(s)

Intent 1. To direct Code users to Articles 4.3.8.1. and 4.5.6.1. and Subsection 4.3.16.

Provision: 4.4.1.3.(3)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6. for the removal of escaped liquids.

Provision: 4.4.1.4.(1)

Intent(s)

Intent 1. To direct Code users to Article 2.2.1.2. for requirements regarding the keeping of records of tests performed on storage tanks, sumps and piping systems.

Provision: 4.4.2.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 4.4.2.

Provision: 4.4.2.1.(2)

Objective

OS1

Attributions

[F82, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks, sumps and piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F82, F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks, sumps and piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F82, F43-OH5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.4.2.1.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that the use of leakage testing equipment will lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Provision: 4.4.2.1.(4)

Objective

OP1

Attributions

[F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will go unnoticed, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will go unnoticed, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will go unnoticed, which could lead to harm to the public.

Provision: 4.4.2.1.(5)

Objective

OS1

Attributions

[F01, F43, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F43, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43, F82-OH5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.4.2.1.(6)

Objective

OS1

Attributions

[F01, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43, F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.4.2.1.(7)

Objective

OS1

Attributions

[F01, F43, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F43, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43, F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.4.2.1.(8)

Objective

OS1

Attributions

[F82, F81-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks, sumps or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.4.2.1.(9)

Intent(s)

Intent 1. To direct Code users to Article 4.4.3.5.

Provision: 4.4.2.1.(10)

Objective

OS1

Attributions

[F01, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or sumps or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or sumps or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.4.2.1.(11)

Objective

OS1

Attributions

[F01, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F01, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.4.2.1.(12)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.4.3.1.(1)

Objective

OS1

Attributions

[F01, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or sumps or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or sumps or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43, F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in storage tanks or sumps or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.4.3.1.(2)

Intent(s)

Intent 1. To establish the leakage rate at which a tank is considered to be leaking when a precision leak detection test referred to in Sentence 4.4.2.1.(10) is performed.

Provision: 4.4.3.1.(3)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of excessive pressure in tanks during tests, which could lead to tank damage, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 4.4.3.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of contact between the liquid and a non-inert gas (e.g. oxygen), which could lead to an adverse reaction, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.4.3.2.(2)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that leakage will not be detected, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that leakage will not be detected, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that leakage will not be detected, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.4.3.2.(3)

Intent(s)

Intent 1. To clarify when pneumatic testing on underground storage tanks and underground piping systems must be performed.

Provision: 4.4.3.2.(4)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of excessive pressure in tanks during testing, which could lead to damage to the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS3

Attributions

[F20, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability of excessive pressure in tanks during testing, which could lead to damage to the tank, which could lead to a safety hazard, which could lead to harm to persons.

Provision: 4.4.3.2.(5)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that excessive internal pressure will lead to failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS3

Attributions

[F20, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability that excessive internal pressure will lead to failure of the tank, which could lead to harm to persons.

Provision: 4.4.3.2.(6)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that activities associated with testing or the use of pneumatic leak detection equipment will lead to the creation of ignition sources, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Provision: 4.4.3.3.(1)

Intent(s)

Intent 1. To establish when a pressure decline test is to be performed on piping systems.

Provision: 4.4.3.3.(2)

Intent(s)

Intent 1. To direct Code users to Sentences 4.4.3.3.(3) to 4.4.3.3.(9) for requirements relating to pressure decline tests on piping systems.

Provision: 4.4.3.3.(3)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that contents will escape during pressure testing, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that contents will escape during pressure testing, which could lead to harm to the public.

Provision: 4.4.3.3.(4)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that contents will escape during pressure testing, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that contents will escape during pressure testing, which could lead to harm to the public.

Provision: 4.4.3.3.(5)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.4.3.3.(6)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.4.3.3.(7)

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to building or facility.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.4.3.3.(8)

Intent(s)

Intent 1. To establish the maximum test pressures (gauge) to be used on piping systems.

Provision: 4.4.3.3.(9)

Intent(s)

Intent 1. To state under what conditions a piping system is considered to be leaking.

Provision: 4.4.3.4.(1)

Intent(s)

Intent 1. To state the application of Article 4.4.3.4.

Provision: 4.4.3.4.(2)

Objective

OS1

Attributions

[F01, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid,

Intent Statements: NFC 2010

which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Provision: 4.4.3.4.(3)

Objective

OS1

Attributions

[F01, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the creation of ignition sources, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43, F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that the use of leakage testing equipment will lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.4.3.4.(4)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.4.3.4.(5)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of excessive pressure in the piping system during testing, which could lead to damage to the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.4.3.4.(6)

Intent(s)

Intent 1. To supersede the test pressure limits stated in Sentence 4.4.3.4.(1), if certain conditions are met [i.e. the piping system is designed for higher pressures].

Provision: 4.4.3.4.(7)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of excessive pressure in pumps and components in the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability of excessive pressure in pumps and components in the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability of excessive pressure in pumps and components in the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.4.3.4.(8)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that Class I liquids will escape during pressure testing, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.4.3.4.(9)

Intent(s)

Intent 1. To establish the leak rate at which a piping system is considered to be leaking.

Provision: 4.4.3.5.(1)

Intent(s)

Intent 1. To state the application of Article 4.4.3.5.

Provision: 4.4.3.5.(2)

Intent(s)

Intent 1. To clarify when pneumatic testing on sump must be performed.

Provision: 4.4.3.5.(3)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from sumps will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from sumps will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from sumps will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.4.3.5.(4)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in sumps or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in sumps or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.4.4.1.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from storage tanks, sumps or piping systems will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from storage tanks, sumps or piping systems will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from storage tanks, sumps or piping systems will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.4.4.1.(2)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from storage tanks, sumps or piping systems will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from storage tanks, sumps or piping systems will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.4.4.1.(3)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from storage tanks, sumps or piping systems will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from storage tanks, sumps or piping systems will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid from storage tanks, sumps or piping systems will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.4.4.1.(4)

Intent(s)

Intent 1. To direct Code users to Article 2.2.1.2. for requirements relating to record keeping.

Provision: 4.4.4.2.(1)

Objective

OS1

Attributions

[F81, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects in underground piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that leakage detection equipment will not meet appropriate standards, which could lead to failure of the equipment, which could lead to the escape of liquid going unnoticed, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F82-OH5]

Intent(s)

Intent 1. To limit the probability that defects in underground piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that leakage detection equipment will not meet appropriate standards, which could lead to the escape of liquid going unnoticed, which could lead to harm to the public.

Provision: 4.5.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 4.5.

Provision: 4.5.1.1.(2)

Intent(s)

Intent 1. To exclude certain piping and transfer operations from the application of Section 4.5.

This is to limit the probability of overlap or inconsistency with other Sections of the Code, or with matters under provincial jurisdiction.

Provision: 4.5.2.1.(1)

Objective

OS1

Attributions

[F20-OS1.1] This applies to the suitability of materials for the maximum anticipated working pressures and operating temperatures.

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that liquid pressure or temperature will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20-OH5] This applies to the suitability of materials for the maximum anticipated working pressures and operating temperatures.

Intent(s)

Intent 1. To limit the probability that liquid pressure or temperature will lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F80-OS1.1] Applies to the suitability of materials for the chemical properties of the contained liquid.

Intent(s)

Intent 1. To limit the probability that a chemical reaction with the liquid it contains will lead to premature corrosion or failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F80-OH5] Applies to the suitability of materials for the chemical properties of the contained liquid.

Intent(s)

Intent 1. To limit the probability that a chemical reaction with the liquid it contains will lead to premature corrosion or failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F20-OP1.1] This applies to the suitability of materials for the maximum anticipated working pressures and operating temperatures.

Intent(s)

Intent 1. To limit the probability that liquid pressure or temperature will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OP1

Attributions

[F80-OP1.1] Applies to the suitability of materials for the chemical properties of the contained liquid.

Intent(s)

Intent 1. To limit the probability that a chemical reaction with the liquid it contains will lead to premature corrosion or failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.2.1.(2)

Objective

OS1

Attributions

4.5.2.1.(2)(a) [F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that internal stress or mechanical damage will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

4.5.2.1.(2)(a) [F20-OH5]

Intent(s)

Intent 1. To limit the probability that internal stress or mechanical damage will lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

4.5.2.1.(2)(b) [F04-OS1.1]

Intent(s)

Intent 1. To limit the probability that the piping system being exposed to fire will lead to the system burning or melting, which could lead to failure of the system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

4.5.2.1.(2)(b) [F04-OH5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that the piping system being exposed to fire will lead to the system burning or melting, which could lead to failure of the system, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

4.5.2.1.(2)(a) [F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that internal stress or mechanical damage will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OP1

Attributions

4.5.2.1.(2)(b) [F04-OP1.1]

Intent(s)

Intent 1. To limit the probability that the piping system being exposed to fire will lead to the system burning or melting, which could lead to failure of the system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.2.1.(3)

Objective

OS1

Attributions

[F81, F04, F20-OS1.1]

Intent(s)

Intent 1. To exempt certain materials from the application of Sentence 4.5.2.1.(2) if certain conditions and standards are met.

This is to limit the probability that internal stress, exposure to fire or mechanical damage will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F04, F81, F20-OP1.1]

Intent(s)

Intent 1. To exempt certain materials from the application of Sentence 4.5.2.1.(2) if certain conditions and standards are met.

This is to limit the probability that internal stress, exposure to fire or mechanical damage will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F04, F81, F20-OH5]

Intent(s)

Intent 1. To exempt certain materials from the application of Sentence 4.5.2.1.(2) if certain conditions and standards are met.

This is to limit the probability that internal stress, exposure to fire or mechanical damage will lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.2.1.(4)

Objective

OS1

Attributions

[F20, F43, F80, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that:

- internal stress or mechanical damage will lead to failure of the piping,
- piping and fittings will leak prematurely or
- a chemical reaction with the liquid will lead to premature corrosion of the piping, which could lead to failure of the piping.

This is to limit the probability of the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F20, F43, F80, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that:

- internal stress or mechanical damage will lead to failure of the piping,
- piping and fittings will leak prematurely, or
- a chemical reaction with the liquid will lead to premature corrosion of the piping, which could lead to failure of the piping.

This is to limit the probability of the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F20, F43, F80, F81-OH5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that:

- internal stress or mechanical damage will lead to failure of the piping,
- piping and fittings will leak prematurely, or
- a chemical reaction with the liquid will lead to premature corrosion of the piping, which could lead to failure of the piping.

This is to limit the probability of the escape of liquid, which could lead to harm to the public.

Provision: 4.5.2.1.(5)

Objective

OS1

Attributions

[F20, F43, F80, F81-OS1.1]

Intent(s)

Intent 1. To exempt steel piping systems involving high service pressures from the application of Sentences 4.5.2.1.(3) and 4.5.2.1.(4) if certain standards are met. This is to limit the probability that:

- internal stress or mechanical damage will lead to failure of the piping,
- piping and fittings will leak prematurely, or
- a chemical reaction with the liquid will lead to premature corrosion of the piping, which could lead to failure of the piping.

This is to limit the probability of the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F20, F43, F80, F81-OP1.1]

Intent(s)

Intent 1. To exempt steel piping systems involving high service pressures from the application of Sentences 4.5.2.1.(3) and 4.5.2.1.(4) if certain standards are met. This is to limit the probability that:

- internal stress or mechanical damage will lead to failure of the piping, or
- piping and fittings will leak prematurely, or
- a chemical reaction with the liquid will lead to premature corrosion of the piping, which could lead to failure of the piping.

This is to limit the probability of the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F20, F43, F80, F81-OH5]

Intent(s)

Intent 1. To exempt steel piping systems involving high service pressures from the application of Sentences 4.5.2.1.(3) and 4.5.2.1.(4) if certain standards are met. This is to limit the probability that:

- internal stress or mechanical damage will lead to failure of the piping, or

- piping and fittings will leak prematurely, or
- a chemical reaction with the liquid will lead to premature corrosion of the piping, which could lead to failure of the piping.

This is to limit the probability of the escape of liquid, which could lead to harm to the public.

Provision: 4.5.2.1.(6)

Intent(s)

Intent 1. To clarify that the term “underground piping systems” includes piping in tank sumps, transition sumps and dispenser sumps.

Provision: 4.5.2.2.(1)

Objective

OS1

Attributions

[F80, F81, F20-OS1.1]

Intent(s)

Intent 1. To exempt non-metallic materials from the application of Sentence 4.5.2.1.(2) if:

- such materials are required for reasons of corrosion, contamination, or sanitation or standards of purity, and
- certain standards are met.

This is to limit the probability that:

- internal stress or mechanical damage will lead to failure of the piping, or
- a chemical reaction with the liquid will lead to premature corrosion of the piping, which could lead to failure of the piping.

This is to limit the probability of the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F80, F81, F20-OP1.1]

Intent(s)

Intent 1. To exempt non-metallic materials from the application of Sentence 4.5.2.1.(2) if:

- such materials are required for reasons of corrosion, contamination, or sanitation or standards of purity, and
- certain standards are met.

This is to limit the probability that:

- internal stress or mechanical damage will lead to failure of the piping, or
- a chemical reaction with the liquid will lead to premature corrosion of the piping, which could lead to failure of the piping.

This is to limit the probability of the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F80, F81, F20-OH5]

Intent(s)

Intent 1. To exempt non-metallic materials from the application of Sentence 4.5.2.1.(2) if:

- such materials are required for reasons of corrosion, contamination, or sanitation or standards of purity, and
- certain standards are met.

This is to limit the probability that:

- internal stress or mechanical damage will lead to failure of the piping, or
- a chemical reaction with the liquid will lead to premature corrosion of the piping, which could lead to failure of the piping.

This is to limit the probability of the escape of liquid, which could lead to harm to the public.

Provision: 4.5.3.1.(1)

Objective

OP1

Attributions

[F80-OP1.1]

Intent(s)

Intent 1. This is to limit the probability that premature corrosion will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F80-OS1.1]

Intent(s)

Intent 1. This is to limit the probability that premature corrosion will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F80-OH5]

Intent(s)

Intent 1. This is to limit the probability that premature corrosion will lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.4.1.(1)

Objective

OS1

Attributions

[F81-OS1.1] [F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of mixing incompatible products or mixing Class I liquids with Class II or III liquids during normal operations, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of delays or inefficiencies in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Provision: 4.5.4.1.(2)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that such piping will be mistaken as piping for another use such as sprinkler or standpipe piping [which is typically painted red], which could lead to misuse of the piping during servicing or maintenance, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that such piping will be mistaken as piping for another use such as sprinkler or standpipe piping [which is typically painted red], which could lead to misuse of the piping during servicing or maintenance, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.4.1.(3)

Objective

OS1

Attributions

[F81-OS1.1] [F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of mixing incompatible products or mixing Class I liquids with Class II or III liquids during normal operations, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Intent 2. To limit the probability of delays or inefficiencies in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 4.5.4.2.(1)

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in responding to a spill of flammable liquids or combustible liquids, which could lead to the spread of liquid beyond the point of origin, which could lead to harm to the public.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 4.5.4.2.(2)

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in responding to a fire emergency if one set of plans is not accessible due to the fire, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in responding to a fire emergency if one set of plans is not accessible due to the fire, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in responding to a spill of flammable liquids or combustible liquids if one set of plans is not accessible, which could lead to the spread of liquid beyond the point of origin, which could lead to harm to the public.

Provision: 4.5.5.1.(1)

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that threaded joints will leak, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that threaded joints will leak, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that threaded joints will leak, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.5.2.(1)

Objective

OP1

Attributions

[F20-OP1.1] Applies to conformance to provincial or territorial regulations or municipal by-laws.

Intent(s)

Intent 1. To limit the probability that welds in piping will fail, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F20-OH5] Applies to conformance to provincial or territorial regulations or municipal by-laws.

Intent(s)

Intent 1. To limit the probability that welds in liquid piping will fail, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F20-OS1.1] Applies to conformance to provincial or territorial regulations or municipal by-laws.

Intent(s)

Intent 1. To limit the probability that welds in piping will fail, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent(s)

Intent 1. To direct Code users to Section 5.2.

Provision: 4.5.5.2.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the need for carrying out welding and cutting operations for dismantling piping, which could lead to the ignition of vapour from the welding and cutting operations, which could lead to harm to persons.

Provision: 4.5.5.3.(1)

Objective

OP1

Attributions

[F20, F43, F80, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that flanged joints in piping will fail, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that liquid will escape through flanged joints in piping, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 3. To limit the probability that the flanged joints will not be of sufficient design which will lead to premature failure of the joint, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 4. This is to limit the probability that internal stress, or mechanical damage will lead to failure of the joint which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility

Objective

OS1

Attributions

[F20, F43, F80, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that flanged joints in piping will fail, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that liquid will escape through flanged joints in piping, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To limit the probability that the flanged joints will not be of sufficient design which will lead to premature failure of the joint, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Intent 4. This is to limit the probability that internal stress, or mechanical damage will lead to failure of the joint which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F43, F80, F81-OH5]

Intent(s)

Intent 1. To limit the probability that flanged joints in piping will fail, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to the public.

Intent 2. To limit the probability that liquid will escape through flanged joints in piping, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to the public.

Intent 3. To limit the probability that the flanged joints will not be of sufficient design which will lead to premature failure of the joint, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to the public.

Intent 4. This is to limit the probability that internal stress, or mechanical damage will lead to failure of the joint which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to the public.

Provision: 4.5.5.3.(2)

Intent(s)

Intent 1. To exempt bronze flanges from the application of Sentence 4.5.5.3.(1), which would otherwise require steel flanges, if certain conditions are met [limitation on pipe size, and use of copper and brass piping], on the basis that the bronze flanges provide an acceptable level of safety.

Provision: 4.5.5.4.(1)

Objective

OP1

Attributions

[F04-OP1.1]

Intent(s)

Intent 1. To limit the probability that bolting materials will fail when exposed to fire, which could lead to the failure of the piping connection, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F04-OS1.1]

Intent(s)

Intent 1. To limit the probability that bolting materials will fail when exposed to fire, which could lead to the failure of the piping connection, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F04-OH5]

Intent(s)

Intent 1. To limit the probability that bolting materials will fail when exposed to fire, which could lead to the failure of the piping connection, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.5.5.5.(1)

Objective

OP1

Attributions

[F20, F04-OP1.1]

Intent(s)

Intent 1. To limit the probability that gaskets will fail under normal operating conditions or when exposed to fire, which could lead to the failure of the piping connection, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F04, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that gaskets will fail under normal operating conditions or when exposed to fire, which could lead to the failure of the piping connection, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F04, F20-OH5] Applies to portion of Code text: "Gaskets in flanged connections shall be of a material resistant to the liquid being carried ..."

Intent(s)

Intent 1. To limit the probability that gaskets will fail under normal operating conditions or when exposed to fire, which could lead to the failure of the piping connection, which could lead to the spread of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.5.5.6.(1)

Objective

OS1

Attributions

4.5.5.6.(1)(a) [F82-OS1.1]

4.5.5.6.(1)(b) [F80-OS1.1]

Intent(s)

Intent 1. To limit the probability that defects or damage in piping systems will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape and spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that premature corrosion will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.5.5.6.(1)(a) [F82-OP1.1]

4.5.5.6.(1)(b) [F80-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that premature corrosion will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.5.5.6.(1)(a) [F82-OH5]

4.5.5.6.(1)(b) [F80-OH5]

Intent(s)

Intent 1. To limit the probability that defects in piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that premature corrosion will lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OH5

Attributions

4.5.5.6.(1)(c) [F43, F44-OH5]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the mechanical connection, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Objective

OS3

Attributions

4.5.5.6.(1)(c) [F01, F43, F44-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the mechanical connection, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure of hazardous substances, which could lead to harm to persons.

Objective

OS1

Attributions

4.5.5.6.(1)(c) [F01, F43, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the mechanical connection, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.5.5.6.(1)(c) [F01, F43, F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the mechanical connection, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.5.7.(1)

Objective

OH5

Attributions

[F43, F81-OH5]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the penetration point, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Intent Statements: NFC 2010

Objective

OS3

Attributions

[F43, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the penetration point, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the penetration point, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F43-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids at the penetration point, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.1.(1)

Objective

OH5

Attributions

[F43, F44-OH5]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the underground piping system in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Objective

OS3

Attributions

[F43, F44-OS3.4]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the underground piping system in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OS1

Attributions

[F01, F43, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the underground piping system in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F43, F44-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape and spread of flammable liquids and combustible liquids from the underground piping system in the event the integrity of the primary containment is compromised, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.2.(1)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from piping systems in or near buildings or equipment, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from piping systems in or near buildings or equipment, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.2.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from piping systems in buildings, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from piping systems in buildings, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from piping systems, which could lead to harm to the public.

Provision: 4.5.6.2.(3)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that the piping system will be used in a manner that could lead to damage to the system, which could lead to failure of the system, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that the piping system will be used in a manner that could lead to damage to the system, which could lead to failure of the system, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that the piping system will be used in a manner that could lead to damage to the system, which could lead to failure of the system, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.6.2.(4)

Intent(s)

Intent 1. To direct Code users to Section 4.3. for the location of vent piping and connections for filling and emptying storage tanks.

Provision: 4.5.6.3.(1)

Objective

OH5

Attributions

[F20, F22-OH5]

Intent(s)

Intent 1. To limit the probability that vibration and stress on piping and components will lead to failure of the piping and components, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F20, F22-OP1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that vibration and stress on piping and components will lead to failure of the piping and components, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F20, F22-OS1.1]

Intent(s)

Intent 1. To limit the probability that vibration and stress on piping and components will lead to failure of the piping and components, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons nearby.

Provision: 4.5.6.3.(2)

Objective

OS1

Attributions

[F80-OS1.1]

Intent(s)

Intent 1. To limit the probability that vehicle, watercraft, or floatplane impact on, or mechanical damage to, the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons in outdoor areas or adjacent buildings.

Objective

OH5

Attributions

[F80-OH5]

Intent(s)

Intent 1. To limit the probability that vehicle, watercraft or floatplane impact on, or mechanical damage to, the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F80-OP1.1]

Intent(s)

Intent 1. To limit the probability that vehicle, watercraft or floatplane impact on, or mechanical damage to, the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.3.(3)

Objective

OS1

Attributions

[F80, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that piping defects or damage will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape and spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that premature corrosion will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F80, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that defects in exposed piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that premature corrosion will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F80, F82-OH5]

Intent(s)

Intent 1. To limit the probability that premature corrosion will lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that defects in exposed piping systems or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.5.6.4.(1)

Objective

OS1

Attributions

4.5.6.4.(1)(a) [F01-OS1.1, OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that escaped liquid on exterior walls will lead to a fire starting and spreading on the exterior walls of the building, which could lead to harm to persons.

Objective

OP1

Attributions

4.5.6.4.(1)(a) [F01-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that escaped liquid on exterior walls will lead to a fire starting and spreading on the exterior walls of the building, which could lead to damage to the building or facility.

Objective

OS1

Attributions

4.5.6.4.(1)(b) [F01, F04-OS1.1]

Intent(s)

Intent 1. To limit the probability that escaped liquid will enter a building through the window opening, which could lead to the spread of liquid inside the building, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons inside the building.

Intent 2. To limit the probability that the piping will be exposed to a fire originating inside the building, which could lead to the failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.5.6.4.(1)(b) [F01, F04-OP1.1]

Intent(s)

Intent 1. To limit the probability that escaped liquid will enter a building through the window opening, which could lead to the spread of liquid inside the building, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the piping will be exposed to a fire originating inside the building, which could lead to the failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.4.(2)

Objective

OS1

Attributions

[F44-OS1.1] Applies to the requirement for impermeable construction.

Intent(s)

Intent 1. To limit the probability that escaped liquid will enter a building through the roof, which could lead to the spread of liquid inside the building, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F44-OP1.1] Applies to the requirement for impermeable construction.

Intent(s)

Intent 1. To limit the probability that escaped liquid will enter a building through the roof, which could lead to the spread of liquid inside the building, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OP1

Attributions

[F02-OP1.2] Applies to the requirement for *noncombustible construction*.

Intent(s)

Intent 1. To limit the probability that fire caused by escaped liquid on the roof will grow and spread along the roof, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F02-OS1.2] Applies to the requirement for *noncombustible construction*.

Intent(s)

Intent 1. To limit the probability that fire caused by escaped liquid on the roof will grow and spread along the roof, which could lead to the spread of fire into the building, which could lead to harm to persons.

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6.

Provision: 4.5.6.4.(3)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that impact on, or physical damage of, the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that impact on, or physical damage of, the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that impact on, or physical damage of, the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.6.4.(4)

Objective

OS1

Attributions

[F21, F04-OS1.1]

Intent(s)

Intent 1. To limit the probability that stress on the piping system or its exposure to fire will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F04, F21-OP1.1]

Intent(s)

Intent 1. To limit the probability that stress on the piping system or its exposure to fire will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F04, F21-OH5] Applies to designing to prevent excessive stress resulting from settlement.

Intent(s)

Intent 1. To limit the probability that stress on the piping system or its exposure to fire will lead to failure of the piping system, which could lead to harm to the public.

Provision: 4.5.6.5.(1)

Objective

OS1

Attributions

[F81, F21-OS1.1]

Intent(s)

Intent 1. To limit the probability that vibrations or settling of an adjacent building or structure will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81, F21-OP1.1]

Intent(s)

Intent 1. To limit the probability that vibrations or settling of an adjacent building or structure will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81, F21-OH5]

Intent(s)

Intent 1. To limit the probability that vibrations or settling of an adjacent building or structure will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.6.5.(2)

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that the transmission of loads from building or structure foundations will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81, F20-OP1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that the transmission of loads from building or structure foundations will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability that the transmission of loads from building or structure foundations will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.6.5.(3)

Objective

OH5

Attributions

[F81, F21-OH5]

Intent(s)

Intent 1. To limit the probability that train operations will lead to excessive vibrations or ground settling, which could lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F81, F21-OS1.1]

Intent(s)

Intent 1. To limit the probability that train operations will lead to excessive vibrations or ground settling, which could lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81, F21-OP1.1]

Intent(s)

Intent 1. To limit the probability that train operations will lead to excessive vibrations or ground settling, which could lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.5.(4)

Objective

OH5

Attributions

[F81, F21-OH5]

Intent(s)

Intent 1. To limit the probability that normal train operations will lead to excessive vibrations or ground settling, which could lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F81, F21-OS1.1]

Intent(s)

Intent 1. To limit the probability that normal train operations will lead to excessive vibrations or ground settling, which could lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81, F21-OP1.1]

Intent(s)

Intent 1. To limit the probability that normal train operations will lead to excessive vibrations or ground settling, which could lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.6.(1)

Objective

OH5

Attributions

4.5.6.6.(1)(a) [F20, F22-OH5]

Intent(s)

Intent 1. To limit the probability that vibrations or ground settling will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

4.5.6.6.(1)(a) [F20, F22-OS1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that vibrations or ground settling will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.5.6.6.(1)(a) [F20, F22-OP1.1]

Intent(s)

Intent 1. To limit the probability that vibrations or ground settling will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OP1

Attributions

4.5.6.6.(1)(b) [F21, F81, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that ground settling or the transmission of loads will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.5.6.6.(1)(b) [F21, F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability that ground settling or the transmission of loads will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

4.5.6.6.(1)(b) [F21, F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that ground settling or the transmission of loads will lead to failure of the underground piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.5.6.7.(1)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid in a service tunnel that is used for pedestrian traffic, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons in the tunnel.

Provision: 4.5.6.8.(1)

Objective

OS1

Attributions

[F82, F21-OS1.1]

Intent(s)

Intent 1. To limit the probability that piping defects or damage will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape and spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that ground heave or foundation settling caused by the freeze/thaw cycle will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To supersede the requirements of Sentence 4.5.6.5.(2) and permit underground piping to be located near building foundations where it enters a building.

Objective

OH5

Attributions

[F82, F21-OH5]

Intent(s)

Intent 1. To limit the probability that piping defects or damage will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that ground heave or foundation settling caused by the freeze/thaw cycle will lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 3. To supersede the requirements of Sentence 4.5.6.5.(2) and permit underground piping to be located near building foundations where it enters a building.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F82, F21-OP1.1]

Intent(s)

Intent 1. To limit the probability that piping defects or damage will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the escape and spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that ground heave or foundation settling caused by the freeze/thaw cycle will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 3. To supersede the requirements of Sentence 4.5.6.5.(2) and permit underground piping to be located near building foundations where it enters a building.

Provision: 4.5.6.8.(2)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.8.(3)

Objective

OS1

Attributions

[F21-OS1.1]

Intent(s)

Intent 1. To limit the probability that pipe movement [expansion or contraction of the piping] will lead to stress in the piping, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F21-OH5]

Intent(s)

Intent 1. To limit the probability that pipe movement [expansion or contraction of the piping] will lead to stress in the piping, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F21-OP1.1]

Intent(s)

Intent 1. To limit the probability that pipe movement [expansion or contraction of the piping] will lead to stress in the piping, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.9.(1)

Objective

OS1

Attributions

[F81-OS1.1] Applies to indoor piping being supported overhead or being located in trenches.

Intent(s)

Intent 1. To limit the probability that impact or physical damage to the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F81-OP1.1] Applies to the requirement for indoor piping to be supported overhead or located in trenches.

Intent(s)

Intent 1. To limit the probability that impact or physical damage to the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent(s)

Intent 1. To state the application of Article 4.5.6.10. [and permit an option to overhead supports].

Provision: 4.5.6.9.(2)

Objective

OS1

Attributions

[F02-OS1.2] [F04-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the liquid will grow and spread within the flooring, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that the piping will be exposed to a fire originating in the flooring, which could lead to the failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2] [F04-OP1.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the liquid will grow and spread within the flooring, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that the piping will be exposed to a fire originating in the flooring, which could lead to the failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building.

Provision: 4.5.6.9.(3)

Objective

OS1

Attributions

[F02, F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the liquid will grow and spread, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that the piping will be exposed to a fire originating in its covering material, which could lead to the failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the liquid will grow and spread, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that the piping will be exposed to a fire originating in its covering material, which could lead to the failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building.

Provision: 4.5.6.10.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6.

Provision: 4.5.6.10.(2)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the design of ventilation located in trenches where piping containing Class I liquids is installed.

Provision: 4.5.6.11.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that impact or physical damage to the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that impact or physical damage to the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.11.(2)

Objective

OS1

Attributions

[F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that the piping support system will collapse or fail, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that the piping support system will collapse or fail, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.11.(3)

Objective

OS1

Attributions

[F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that the piping support system will collapse or fail, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that the piping support system will collapse or fail, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.11.(4)

Objective

OS1

Attributions

[F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that the piping support system will collapse or fail, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that the piping support system will collapse or fail, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.12.(1)

Objective

OS1

Attributions

[F20-OS1.1]

Intent(s)

Intent 1. To limit the probability of excessive stresses in the piping, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F20-OP1.1]

Intent(s)

Intent 1. To limit the probability of excessive stresses in the piping, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.5.6.12.(2)

Objective

OS1

Attributions

[F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that the piping support system will collapse or fail, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that the piping support system will collapse or fail, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.13.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that impact or physical damage to the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that impact or physical damage to the piping system will lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.6.14.(1)

Objective

OP1

Attributions

[F21-OP1.1]

Intent(s)

Intent 1. To limit the probability that thermal expansion or contraction will put stress on the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F21-OH5]

Intent(s)

Intent 1. To limit the probability that thermal expansion or contraction will put stress on the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F21-OS1.1]

Intent(s)

Intent 1. To limit the probability that thermal expansion or contraction will put stress on the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.5.6.14.(2)

Objective

OS1

Attributions

[F20, F21, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that vibration, settling or temperature changes will put excessive stress on the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F20, F21, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that vibration, settling or temperature changes will put excessive stress on the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F20, F21, F81-OH5]

Intent(s)

Intent 1. To limit the probability that vibration, settling or temperature changes will put stress on the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.7.1.(1)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that operating temperatures and pressures will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that operating temperatures and pressures will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that operating temperatures and pressures will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.7.1.(2)

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent 1. To exempt hose nozzle valves from the application of Sentence 4.5.7.1.(1) if the valves conform to a certain standard, on the basis that the standard provides an acceptable level of safety for such valves.

This is to limit the probability that operating temperatures and pressures will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To exempt hose nozzle valves from the application of Sentence 4.5.7.1.(1) if the valves conform to a certain standard, on the basis that the standard provides an acceptable level of safety for such valves.

This is to limit the probability that operating temperatures and pressures will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F20-OP1.1]

Intent(s)

Intent 1. To exempt hose nozzle valves from the application of Sentence 4.5.7.1.(1) if the valves conform to a certain standard, on the basis that the standard provides an acceptable level of safety for such valves.

This is to limit the probability that operating temperatures and pressures will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.7.1.(3)

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To exempt emergency valves from the application of Sentence 4.5.7.1.(1) if the valves conform to a certain standard, on the basis that the standard provides an acceptable level of safety for such valves. This is to limit the probability that operating temperatures and pressures will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To exempt emergency valves from the application of Sentence 4.5.7.1.(1) if the valves conform to a certain standard, on the basis that the standard provides an acceptable level of safety for such valves. This is to limit the probability that operating temperatures and pressures will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F20-OP1.3]

Intent(s)

Intent 1. To exempt emergency valves from the application of Sentence 4.5.7.1.(1) if the valves conform to a certain standard, on the basis that the standard provides an acceptable level of safety for such valves. This is to limit the probability that operating temperatures and pressures will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.7.2.(1)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.7.2.(2)

Objective

OS1

Attributions

[F44, F12-OS1.1]

Intent(s)

Intent 1. To limit the probability that the valves cannot be shut in a timely manner during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F44, F12-OH5]

Intent(s)

Intent 1. To limit the probability that the valves cannot be shut in a timely manner during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F44, F12-OP1.1]

Intent(s)

Intent 1. To limit the probability that the valves cannot be shut in a timely manner during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.5.7.2.(3)

Objective

OS1

Attributions

4.5.7.2.(3)(a), 4.5.7.2.(3)(b), 4.5.7.2.(3)(c), 4.5.7.2.(3)(d), 4.5.7.2.(3)(e) [F12, F44-OS1.1] Applies to the requirement for shut-off valves.

Intent(s)

Intent 1. To limit the probability that the flow of liquid cannot be stopped in a timely manner during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F04, F20-OP1.1] Applies to the requirement for steel shut-off valves.

Intent(s)

Intent 1. To limit the probability that internal stress or mechanical damage will lead to failure of the valves, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that exposure of the valves to fire will lead to failure of the valves, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.5.7.2.(3)(a), 4.5.7.2.(3)(b), 4.5.7.2.(3)(c), 4.5.7.2.(3)(d), 4.5.7.2.(3)(e) [F12, F44-OH5] Applies to the requirement for shut-off valves.

Intent(s)

Intent 1. To limit the probability that the flow of liquid cannot be stopped in a timely manner during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

4.5.7.2.(3)(a), 4.5.7.2.(3)(b), 4.5.7.2.(3)(c), 4.5.7.2.(3)(d), 4.5.7.2.(3)(e) [F12, F44-OP1.1] Applies to the requirement for shut-off valves.

Intent(s)

Intent 1. To limit the probability that the flow of liquid cannot be stopped in a timely manner during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F04, F20-OS1.1] Applies to the requirement for steel shut-off valves.

Intent(s)

Intent 1. To limit the probability that internal stress or mechanical damage will lead to failure of the valves, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that exposure of the valves to fire will lead to failure of the valves, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F04, F20-OH5] Applies to the requirement for steel shut-off valves.

Intent(s)

Intent 1. To limit the probability that internal stress or mechanical damage will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that exposure of the valves to fire will lead to failure of the valves, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.5.7.2.(4)

Objective

OS1

Attributions

[F81, F04, F20-OS1.1]

Intent(s)

Intent 1. To exempt certain valves and materials from the application of Sentence 4.5.7.2.(3) if special conditions warrant their use.

This is to limit the probability that:

- internal stress or mechanical damage will lead to failure of the valves, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- exposure of the valves to fire will lead to failure of the valves, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To exempt certain valves and materials from the application of Sentence 4.5.7.2.(3) if special conditions warrant their use.

This is to limit the probability that internal stress or mechanical damage will lead to failure of the valves, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F04, F20-OP1.1]

Intent(s)

Intent 1. To exempt certain valves and materials from the application of Sentence 4.5.7.2.(3) if special conditions warrant their use.

This is to limit the probability that:

- internal stress or mechanical damage will lead to failure of the valves, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- exposure of the valves to fire will lead to failure of the valves, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.7.3.(1)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will leak from the valve into the air line, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour by an ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that liquid will leak from the valve into the air line, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour by an ignition source, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Provision: 4.5.7.4.(1)

Objective

OS1

Attributions

[F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that exposure of the valve packing to high pressure will damage the packing, which could lead to the leakage of liquid from the valve, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour by a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F20-OH5]

Intent(s)

Intent 1. To limit the probability that exposure of the valve packing to high pressure will damage the packing, which could lead to the leakage of liquid from the valve, which could lead to harm to the public.

Objective

OP1

Attributions

[F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that exposure of the valve packing to high pressure will damage the packing, which could lead to the leakage of liquid from the valve, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour by a nearby ignition source, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Provision: 4.5.7.5.(1)

Objective

OS1

Attributions

[F12-OS1.1]

Intent(s)

Intent 1. To limit the probability of confusion regarding whether valves are opened or closed, which could lead to delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability of confusion regarding whether valves are opened or closed, which could lead to delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F12-OP1.1]

Intent(s)

Intent 1. To limit the probability of confusion regarding whether valves are opened or closed, which could lead to delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.7.6.(1)

Objective

OS1

Attributions

[F12, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of mixing incompatible liquids during normal operations, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F12, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of mixing incompatible liquids during normal operations, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Provision: 4.5.7.6.(2)

Objective

OS1

Attributions

[F12, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of unrecognizable information on identification tags, which could lead to delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of mixing incompatible liquids during normal operations, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability of unrecognizable information on identification tags, which could lead to delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F12, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability of unrecognizable information on identification tags, which could lead to delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation

Intent Statements: NFC 2010

and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of mixing incompatible liquids during normal operations, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Provision: 4.5.8.1.(1)

Objective

OS1

Attributions

[F01, F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that the heating system will be an ignition source, which could lead to the ignition of nearby vapour from the piping system, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that liquid in the piping system will be overheated, which could lead to a failure of the piping system to contain the liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.5.8.2.(1)

Objective

OS1

Attributions

[F20, F81-OS1.1] Applies to the minimum steam temperature needed to make the liquid being used fluid.

Intent(s)

Intent 1. To limit the probability that liquid in the piping system will be overheated, which could lead to a failure of the piping system to contain the liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

[F20, F81-OS1.1] Applies to the minimum steam pressure needed to make the liquid being used fluid.

Intent(s)

Intent 1. To limit the probability that a steam line will rupture or break, which could lead to the failure of the piping system, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5] Applies to the minimum steam pressure needed to make the liquid being used fluid.

Intent(s)

Intent 1. To limit the probability that a steam line will rupture or break, which could lead to the failure of the piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F20, F81-OP1.1] Applies to the minimum steam temperature needed to make the liquid being used fluid.

Intent(s)

Intent 1. To limit the probability that liquid in the piping will be overheated, which could lead to a failure of the piping system to contain the liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OP1

Attributions

[F20, F81-OP1.1] Applies to the minimum steam pressure needed to make the liquid being used fluid.

Intent(s)

Intent 1. To limit the probability that a steam line will rupture or break, which could lead to the failure of the piping system, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent(s)

Intent 1. To state the application of Sentences 4.5.8.2.(2) and 4.5.8.2.(3).

Provision: 4.5.8.2.(2)

Objective

OP1

Attributions

[F81, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that a steam line will rupture or break, which could lead to the failure of the piping system, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability that a steam line will rupture or break, which could lead to the failure of the piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that a steam line will rupture or break, which could lead to the failure of the piping system, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.5.8.2.(3)

Objective

OS1

Attributions

[F01, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of heat loss from steam lines and piping being heated, which could lead to the lines or piping becoming an ignition source, which could lead to the ignition of nearby combustible materials, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of heat transfer from steam lines and heated piping systems to other piping, which could lead to liquid being overheated, which could lead to failure of the piping system to contain the liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To expand the application of the National Building Code of Canada to insulation of indoor [existing buildings] and outdoor steam lines and piping for flammable liquids and combustible liquids.

Objective

OP1

Attributions

[F01, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability of heat loss from steam lines and piping being heated, which could lead to the lines or piping becoming an ignition source, which could lead to the ignition of nearby combustible materials, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 2. To limit the probability of heat transfer from steam lines and heated piping systems to other piping, which could lead to liquid being overheated, which could lead to failure of the piping system to contain the liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 3. To expand the application of the National Building Code of Canada to insulation of indoor [existing buildings] and outdoor steam lines and piping for flammable liquids and combustible liquids.

Provision: 4.5.8.3.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.4.

Provision: 4.5.8.4.(1)

Intent(s)

Intent 1. To state the application of Sentence 4.5.8.4.(2).

Provision: 4.5.8.4.(2)

Objective

OS1

Attributions

4.5.8.4.(2)(a), 4.5.8.4.(2)(b), 4.5.8.4.(2)(c) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the heating systems will be an ignition source, which could lead to the ignition of nearby vapour from escaped liquid from the piping system, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS1

Attributions

4.5.8.4.(2)(b) [F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will be overheated, which could lead to failure of the piping system to contain the liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.5.8.4.(2)(d) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that location of an ignition source will lead to ignition of nearby vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

4.5.8.4.(2)(b) [F81, F20-OP1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that liquid will be overheated, which could lead to failure of the piping system to contain the liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.8.4.(3)

Objective

OS1

Attributions

[F82, F01, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that the heating systems will be an ignition source, which could lead to the ignition of nearby vapour from escaped liquid from the piping system, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that liquid will be overheated, which could lead to failure of the piping system to contain the liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F82, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that liquid will be overheated, which could lead to failure of the piping system to contain the liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.8.5.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that an open flame will be an ignition source, which could lead to the ignition of nearby vapour from escaped liquid from the piping system, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.5.9.1.(1)

Objective

OP3

Attributions

4.5.9.1.(1)(a) [F01-OP3.1]

Intent(s)

Intent 1. To limit the probability that an ignition source from an adjacent property will ignite vapour from the pump, which could lead to a fire or explosion, which could lead to damage to adjacent buildings or facilities.

Intent 2. To limit the probability that vapour from the pump will accumulate on the adjacent property, which could lead to ignition of the vapour from an ignition source on the adjacent property, which could lead to a fire or explosion, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

4.5.9.1.(1)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will enter a building through openings in the building, which could lead to the accumulation of vapour inside the building, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP3

Attributions

4.5.9.1.(1)(b) [F01-OP3.1]

Intent(s)

Intent 1. To limit the probability that vapour will enter an adjacent building through openings in the building, which could lead to the accumulation of vapour inside the building, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

4.5.9.1.(1)(a) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that an ignition source from an adjacent property will ignite vapour from the pump, which could lead to a fire or explosion, which could lead to harm to persons in the facility.

Intent 2. To limit the probability that vapour from the pump will accumulate on the adjacent property, which could lead to ignition of the vapour from an ignition source on the adjacent property, which could lead to a fire or explosion, which could lead to harm to persons in adjacent buildings or facilities.

Intent Statements: NFC 2010

Provision: 4.5.9.2.(1)

Intent(s)

Intent 1. To expand the application of Subsection 4.2.9. [which would normally not apply to pump rooms].

Provision: 4.5.9.2.(2)

Objective

OS1

Attributions

[F01-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that other uses will create ignition sources, which could lead to ignition of vapours [likely to be present around this type of equipment and operation], which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that other uses will increase the fire load, which could lead to the spread of fire in the room beyond the point of fire origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.1] [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that other uses will create ignition sources, which could lead to ignition of vapours [likely to be present around this type of equipment and operation], which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 2. To limit the probability that other uses will increase the fire load, which could lead to the spread of fire in the room beyond the point of fire origin, which could lead to damage to the building or facility.

Provision: 4.5.9.3.(1)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that forces on the pits will lead to structural failure of the pits, which could lead to stress or physical damage to the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that forces on the pits will lead to structural failure of the pits, which could lead to stress or physical damage to the piping system, which could lead to failure of the piping system, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.9.3.(2)

Objective

OS1

Attributions

[F01-OS1.1] [F02-OS1.2] Applies to the size of pits not being larger than required for inspection and maintenance.

Intent(s)

Intent 1. To limit the probability that other uses will create ignition sources, which could lead to ignition of vapours [likely to be present around this type of equipment and operation], which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that other uses will increase the fire load, which could lead to the spread of fire in the room beyond the point of fire origin, which could lead to harm to persons.

Objective

OS1

Attributions

[F81-OS1.1] Applies to the requirement for the pits to be provided with a cover.

Intent(s)

Intent 1. To limit the probability that the pumps or piping system in the pits will be physically damaged, which could lead to failure of the pumps or piping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.1] [F02-OP1.2] Applies to the size of pits not being larger than required for inspection and maintenance.

Intent(s)

Intent 1. To limit the probability that other uses will create ignition sources, which could lead to ignition of vapours [likely to be present around this type of equipment and operation], which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 2. To limit the probability that other uses will increase the fire load, which could lead to the spread of fire in the room beyond the point of fire origin, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.5.9.4.(1)

Objective

OS1

Attributions

[F44-OS1.1] Applies to the requirement to have control switches to shut down the pumps in case of emergency.

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F44-OP1.1] Applies to the requirement to have control switches to shut down the pumps in case of emergency.

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F44-OH5] Applies to the requirement to have control switches to shut down the pumps in case of emergency.

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F12-OP1.1] Applies to the requirement to locate one of the 2 control switches in the operating area and the other at a remote location.

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid if one switch cannot be reached or is made inoperative during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F12-OH5] Applies to the requirement to locate one of the 2 control switches in the operating area and the other at a remote location.

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid if one switch cannot be reached or is made inoperative during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F12-OS1.1] Applies to the requirement to locate one of the 2 control switches in the operating area and the other at a remote location.

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid if one switch cannot be reached or is made inoperative during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Provision: 4.5.9.5.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will be contaminated with water, which could lead to malfunctions in transfer and damage to pumps or piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will be contaminated with water, which could lead to malfunctions in transfer and damage to pumps or piping, which could lead to the escape of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that liquid will be contaminated with water, which could lead to malfunctions in transfer and damage to pumps or piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.9.5.(2)

Objective

OS1

Attributions

[F81, F20, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the vessel will fail structurally, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20, F82-OH5]

Intent(s)

Intent 1. To limit the probability that the vessel will fail structurally, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F82, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that the vessel will fail structurally, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.9.5.(3)

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that hydraulic transfer systems will be overpressurized, which could lead to a failure of the tank or piping system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability that hydraulic transfer systems will be overpressurized, which could lead to a failure of the tank or piping system to contain liquid, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that hydraulic transfer systems will be overpressurized, which could lead to a failure of the tank or piping system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.9.5.(4)

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that hydraulic transfer systems will be overpressurized, which could lead to a failure of the tank or piping system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability that hydraulic transfer systems will be overpressurized, which could lead to a failure of the tank or piping system to contain liquid, which could lead to the escape of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F81, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that hydraulic transfer systems will be overpressurized, which could lead to a failure of the tank or piping system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.9.5.(5)

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that hydraulic transfer systems will be overpressurized, which could lead to a failure of the tank or piping system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability that hydraulic transfer systems will be overpressurized, which could lead to a failure of the tank or piping system to contain liquid, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that hydraulic transfer systems will be overpressurized, which could lead to a failure of the tank or piping system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.9.5.(6)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will be contaminated with water, which could lead to malfunctions in transfer and damage to pumps or piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will be contaminated with water, which could lead to malfunctions in transfer and damage to pumps or piping, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that liquid will be contaminated with water, which could lead to malfunctions in transfer and damage to pumps or piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.9.6.(1)

Objective

OS1

Attributions

[F81, F82, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that the vessel will fail structurally, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F82, F20-OH5]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that the vessel will fail structurally, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F82, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that the vessel will structurally fail, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.9.6.(2)

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that inert gas transfer systems will be overpressurized, which could lead to a failure of the system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability that inert gas transfer systems will be overpressurized, which could lead to a failure of the system to contain liquid, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that inert gas transfer systems will be overpressurized, which could lead to a failure of the system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.9.6.(3)

Objective

OS1

Attributions

[F81, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that inert gas transfer systems will be overpressurized, which could lead to a failure of the system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20-OH5]

Intent(s)

Intent 1. To limit the probability that inert gas transfer systems will be overpressurized, which could lead to a failure of the system to contain liquid, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that inert gas transfer systems will be overpressurized, which could lead to a failure of the system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.9.6.(4)

Objective

OS1

Attributions

[F81, F04-OS1.1]

Intent(s)

Intent 1. To limit the probability that inert gas transfer systems will be overpressurized when exposed to fire, which could lead to a failure of the system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F81, F04-OH5]

Intent(s)

Intent 1. To limit the probability that inert gas transfer systems will be overpressurized when exposed to fire, which could lead to a failure of the system to contain liquid, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F04-OP1.1]

Intent(s)

Intent 1. To limit the probability that inert gas transfer systems will be overpressurized when exposed to fire, which could lead to a failure of the system to contain liquid, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.9.7.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of contact between the liquid and non-inert gas, which could lead to an adverse reaction, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.5.9.7.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To exempt non-inert gas pressure from the application of Sentence 4.5.9.7.(1) if certain conditions are met.

This is to limit the probability of contact between the liquid and non-inert gas, which could lead to an adverse reaction, which could lead to the ignition of vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.5.10.1.(1)

Objective

OS1

Attributions

[F12-OS1.1]

Intent(s)

Intent 1. To limit the probability that persons will not carry out proper procedures during normal operations and emergencies, which could lead to delays or mistakes, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability that persons will not carry out proper procedures during normal operations and emergencies, which could lead to delays or mistakes, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F12-OP1.1]

Intent(s)

Intent 1. To limit the probability that persons will not carry out proper procedures during normal operations and emergencies, which could lead to delays or mistakes, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.10.2.(1)

Objective

OS1

Attributions

4.5.10.2.(1)(b) [F12-OS1.1]

Intent(s)

Intent 1. To limit the probability of delays in responding to an emergency, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Objective

OP1

Attributions

4.5.10.2.(1)(b) [F12-OP1.1]

Intent(s)

Intent 1. To limit the probability of delays in responding to an emergency, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.5.10.2.(1)(b) [F12-OH5]

Intent(s)

Intent 1. To limit the probability of delays in responding to an emergency, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

4.5.10.2.(1)(c) [F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

4.5.10.2.(1)(c) [F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Objective

OS1

Attributions

4.5.10.2.(1)(d) [F12, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability of mixing incompatible liquids during normal operations, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

4.5.10.2.(1)(d) [F12, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of mixing incompatible liquids during normal operations, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.5.10.2.(1)(d) [F12-OH5]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid during an emergency, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to the public.

Objective

OS1

Attributions

4.5.10.2.(1)(a) [F12-OS1.1]

Intent(s)

Intent 1. To limit the probability that persons will not carry out proper procedures during normal operations and emergencies, which could lead to delays or mistakes, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

4.5.10.2.(1)(a) [F12-OP1.1]

Intent(s)

Intent 1. To limit the probability of delays in responding to an emergency, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Objective

OH5

Attributions

4.5.10.2.(1)(a) [F12-OH5]

Intent(s)

Intent 1. To limit the probability of delays in responding to an emergency, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.10.2.(2)

Objective

OS1

Attributions

[F12-OS1.2] Applies to the training of employees in the location, function and operation of valves used for the operation of fire protection equipment.

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

[F12-OS1.1] Applies to the training of employees in the location, function and operation of valves used for the operation of manual emergency shut-off valves.

Intent(s)

Intent 1. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F12-OP1.2] Applies to the training of employees in the location, function and operation of valves used for the operation of fire protection equipment.

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Objective

OP1

Attributions

[F12-OP1.1] Applies to the training of employees in the location, function and operation of valves used for the operation of the manual emergency shut-off valves.

Intent(s)

Intent 1. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F12-OH5] Applies to the training of employees in the location, function and operation of valves used for the operation of the manual emergency shut-off valves.

Intent(s)

Intent 1. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.5.10.3.(1)

Objective

OS1

Attributions

[F12-OS1.2, OS1.1]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F12-OH5] Applies to the requirement for signs indicating the location of valves used for the operation of manual emergency shut-off valves.

Intent(s)

Intent 1. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F12-OP1.2, OP1.1]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in responding to a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the escape of liquid cannot be minimized during an emergency, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.10.4.(1)

Objective

OS1

Attributions

[F12, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in locating and using extinguishers in a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F12, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in locating and using extinguishers in a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 4.5.10.5.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that exposed piping system defects or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that exposed piping system defects or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that exposed piping system defects or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.5.10.5.(2)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that exposed piping system defects or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that exposed piping system defects or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that exposed piping system defects or the escape of liquid will go unnoticed, which could lead to appropriate measures not being taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.5.10.5.(3)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour leakage will go unnoticed during a visual inspection, which could lead to appropriate measures not being taken, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that vapour leakage will go unnoticed during a visual inspection, which could lead to appropriate measures not being taken, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that vapour leakage will go unnoticed during a visual inspection, which could lead to appropriate measures not being taken, which could lead to liquid continuing to escape, which could lead to harm to the public.

Provision: 4.5.10.5.(4)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that such devices and open flames will ignite vapour, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.5.10.6.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that safety shut-off valves and other fire safety devices will not operate properly during an emergency, which could lead to delays in shutting off the flow of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that safety shut-off valves and other fire safety devices will not operate properly during an emergency, which could lead to delays in shutting off the flow of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that safety shut-off valves and other fire safety devices will not operate properly during an emergency, which could lead to delays in shutting off the flow of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.5.10.7.(1)

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that piping systems will leak during maintenance operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the maintenance operations will lead to the ignition of vapour from the piping system, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that piping systems will leak during maintenance operations, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.10.7.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that piping systems will leak during maintenance or repair operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that piping systems will leak during maintenance or repair operations, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.10.7.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the repair operations will create an ignition source near the piping system, which could lead to the ignition of vapour from the piping system, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.5.10.7.(4)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that a valve will be mistakenly opened, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that a valve will be mistakenly opened, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.10.7.(5)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that piping will leak, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that piping will leak, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.5.10.7.(6)

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To exempt maintenance operations on pressurized systems from the application of Sentence 4.5.10.7.(1) if certain practices are carried out.

This is to limit the probability that:

- the piping systems will leak during maintenance operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- the maintenance operations will lead to the ignition of vapour from the piping system, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To exempt maintenance operations on pressurized systems from the application of Sentence 4.5.10.7.(1) if certain practices are carried out.

This is to limit the probability that the piping systems will leak during maintenance operations, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.6.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 4.6.

Provision: 4.6.1.1.(2)

Objective

OS1

Attributions

[F01, F02, F03, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that the storage or dispensing of certain [Class 2.1] gases will lead to a fire or explosion, which could lead to harm to persons in buildings or outdoor areas.

Intent(s)

Intent 1. To make the provisions of Section 4.6. [that relate to the storage and dispensing of Class 2.1 flammable gases at fuel dispensing stations] supersede the requirements of the referenced standards [CAN/CSA B149.1 and CAN/CSA B149.2] in cases of conflict.

Provision: 4.6.1.1.(3)

Intent(s)

Intent 1. To permit fuel-dispensing operations to be carried out inside a building, on the basis that the building design provides direct ventilation to the outdoors, thus limiting the probability that vapours will accumulate to ignitable concentrations or migrate to other parts of the building.

Provision: 4.6.2.1.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.3.2.

Provision: 4.6.2.1.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the storage tanks will spread beyond the point of origin, which could lead to harm to persons.

Intent 2. To exempt the aboveground storage tanks from, and reduce the capacity limits of, Subsection 4.3.2. [as stated in Sentence 4.6.2.1.(1)].

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the storage tanks will spread beyond the point of origin, which could lead to damage to the building or facility.

Intent 2. To exempt the aboveground storage tanks from, and reduce the capacity limits of, Subsection 4.3.2. [as stated in Sentence 4.6.2.1.(1)].

Provision: 4.6.2.1.(3)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To override the limits in Sentence 4.6.2.1.(2) and permit more liquids in aboveground storage tanks on the basis that certain conditions are met.

This is to limit the probability that a fire involving the storage tanks will spread beyond the point of origin, which could lead to harm to persons.

Intent 2. To exempt the aboveground storage tanks from, and reduce the capacity limits of, Subsection 4.3.2. [as stated in Sentence 4.6.2.1.(1)].

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To override the limits in Sentence 4.6.2.1.(2) and permit more liquids in aboveground storage tanks on the basis that certain conditions are met.

This is to limit the probability that a fire involving the storage tanks will spread beyond the point of origin, which could lead to damage to the building or facility.

Intent 2. To exempt the aboveground storage tanks from, and reduce the capacity limits of, Subsection 4.3.2. [as stated in Sentence 4.6.2.1.(1)].

Provision: 4.6.2.1.(4)

Objective

OS1

Attributions

4.6.2.1.(4)(a) [F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that vehicle impact on, or mechanical damage to, the tank or ancillary equipment will lead to failure of the tank or equipment, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To require additional safety measures to those of the basic requirements of Subsection 4.3.2. [as stated in Sentence 4.6.2.1.(1)].

Objective

OS1

Attributions

4.6.2.1.(4)(b) [F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that vandalism on, or tampering with, the tank or ancillary equipment will lead to the escape of vapour or liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To require additional safety measures to those of the basic requirements of Subsection 4.3.2. [as stated in Sentence 4.6.2.1.(1)].

Objective

OH5

Attributions

4.6.2.1.(4)(a) [F81-OH5]

Intent(s)

Intent 1. To limit the probability that vehicle impact on, or mechanical damage to, the tank or ancillary equipment will lead to failure of the tank or equipment, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To require additional safety measures to those of the basic requirements of Subsection 4.3.2. [as stated in Sentence 4.6.2.1.(1)].

Objective

OH5

Attributions

4.6.2.1.(4)(b) [F34-OH5]

Intent(s)

Intent 1. To limit the probability that vandalism on, or tampering with, the tank or ancillary equipment will lead to the escape of vapour or liquid, which could lead to harm to the public.

Intent 2. To require additional safety measures to those of the basic requirements of Subsection 4.3.2. [as stated in Sentence 4.6.2.1.(1)].

Attributions

4.6.2.1.(4)(c)

Intent(s)

Intent 1. To direct Code users to Subsection 4.3.7.

Attributions

4.6.2.1.(4)(d)

Intent(s)

Intent 1. To direct Code users to Sentence 4.3.1.8.(2).

Provision: 4.6.2.1.(5)

Intent(s)

Intent 1. To classify compartmentalized tanks within the limit stated in Sentences 4.6.2.1.(2) and (3).

Provision: 4.6.2.2.(1)

Objective

OS1

Attributions

[F81, F12-OS1.1] [F12-OS1.2] Applies to the requirement for products stored or sold at *fuel-dispensing stations* to be in *closed containers* distinctly marked with the generic name of the liquid they contain.

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that unsafe storage practices, accidental mischief or mishandling of products, or inappropriate actions by personnel during emergency situations, will lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that delays or inefficiencies in responding to a fire emergency will lead to the spread of the fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Intent(s)

Intent 1. To expand the application of Article 4.2.3.1., which would otherwise not apply at fuel dispensing stations [as stated in Clause 4.2.1.1.(2)(a)].

Provision: 4.6.2.3.(1)

Intent(s)

Intent 1. To expand the application of Article 4.5.2.1., which would otherwise not apply at fuel dispensing stations [as stated in Clause 4.5.1.1.(2)(d)].

Provision: 4.6.2.4.(1)

Intent(s)

Intent 1. To expand the application of Article 4.5.3.1., which would otherwise not apply at fuel dispensing stations [as stated in Clause 4.5.1.1.(2)(c)].

Provision: 4.6.2.5.(1)

Objective

OS1

Attributions

[F81, F22-OS1.1]

Intent(s)

Intent 1. To limit the probability that vehicle, watercraft or floatplane impact on, or mechanical damage to, piping will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that vibration or excessive movement of the piping will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F22-OH5]

Intent(s)

Intent 1. To limit the probability that vehicle, watercraft or floatplane impact on, or mechanical damage to, piping will lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that vibration or excessive movement of the piping will lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81, F22-OP1.1]

Intent(s)

Intent 1. To limit the probability that vehicle, watercraft or floatplane impact on, or mechanical damage to, piping will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that vibration or excessive movement of the piping will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.6.2.6.(1)

Intent(s)

Intent 1. To expand the application of Article 4.5.9.3., which would otherwise not apply at fuel dispensing stations [as stated in Clause 4.5.1.1.(2)(c)].

Provision: 4.6.3.1.(1)

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that the operation of dispensers will lead to a spark or ignition source, which could lead to the ignition of vapour, which could lead to harm to persons.

Intent 2. To limit the probability that dispensers will release liquid or vapour in an uncontrolled manner, which could lead to the ignition of vapour, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that dispensers will release liquid in an uncontrolled manner, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.6.3.2.(1)

Objective

OS1

Attributions

[F01, F20, F44, F80, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that dispenser sumps will not meet proper standards, which could lead to such devices not performing in the way intended, which could lead to the spread of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS3

Attributions

[F20, F44, F80, F81-OS3.4]

Intent(s)

Intent 1. To limit the probability that dispenser sumps will not meet proper standards, which could lead to such devices not performing in the way intended, which could lead to the escape of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to exposure to hazardous substances, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F20, F44, F80, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that dispenser sumps will not meet proper standards, which could lead to such devices not performing in the way intended, which could lead to the spread of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to the accidental ignition of liquid or vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F20, F44, F80, F81-OH5]

Intent(s)

Intent 1. To limit the probability that dispenser sumps will not meet proper standards, which could lead to such devices not performing in the way intended, which could lead to the escape and spread of flammable liquids and combustible liquids from the dispensing unit due to internal leakage, which

could lead to contamination of the soil, which could lead to contamination of the water table, which could lead to harm to the public.

Provision: 4.6.3.3.(1)

Objective

OS1

Attributions

4.6.3.3.(1)(f) [F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape inside a building, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions4.6.3.3.(1)(f) [F01-OS1.1] Applies to the minimum distance from any *building* opening.**Intent(s)**

Intent 1. To limit the probability that vapour will enter a building, which could lead to the accumulation and subsequent ignition of the vapour, which could lead to harm to persons in the building.

Objective

OP3

Attributions

4.6.3.3.(1)(a) [F01-OP3.1]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will spread to nearby properties or buildings, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

4.6.3.3.(1)(b), 4.6.3.3.(1)(c) [F01, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that the operation of the liquid dispenser will lead to the ignition of gases, [released from the nearby gas dispensers], which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that the operation of the gas dispensers will lead to the ignition of vapour [released from the nearby liquid dispensers], which could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability that misuse of, or confusion in the operation of, the liquid dispenser will lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OS1

Attributions

4.6.3.3.(1)(d) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of ignition of vapour released from the operation of a dispenser, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of ignition of escaped liquid from a dispenser, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS1

Attributions

4.6.3.3.(1)(f) [F01-OS1.1] Applies to location with respect to openings in *buildings* for the shelter of operating personnel and in which there are electrical installations.

Intent(s)

Intent 1. To exempt dispensers from the minimum clearance requirement stated at the beginning of Clause 4.6.3.3.(1)(f) if certain conditions are met:

- these openings are part of a building used exclusively by personnel that is essential to the fuel dispensing operations, and
- ignition sources from electrical installation are eliminated in the building.

This is to limit the probability that ignition sources will ignite vapour from dispensing operations, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.6.3.3.(2)

Objective

OS1

Attributions

4.6.3.3.(2)(a) [F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that the public will misuse the dispensing equipment, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the public will misuse the dispensing equipment, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.6.3.3.(2)(b) [F12, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the location of the dispensers in a basement or on upper storeys will lead to delays or ineffectiveness in conducting firefighting operations in the event of a fire emergency,

which could lead to the spread of the fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To limit the probability that location of dispensers in a basement will lead to accumulation of vapours in low areas of a building, which could lead to ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.6.3.3.(2)(d) [F01-OS1.1] Applies to portion of Code text: "...ventilation is provided in conformance ... with the requirements for storage garages in Part 6 of the NBC."

Intent(s)

Intent 1. To limit the probability that carbon monoxide and other flammable fumes [from vehicles approaching and leaving the dispensing area] will accumulate to levels that could pose a fire or explosion hazard, which could lead to the ignition of such fumes from a nearby ignition source, which could lead to harm to persons.

Objective

OS3

Attributions

4.6.3.3.(2)(d) [F40-OS3.4] Applies to portion of Code text: "... ventilation is provided in conformance ... with the requirements for storage garages in Part 6 of the NBC."

Intent(s)

Intent 1. To limit the probability that carbon monoxide and other toxic fumes [from vehicles approaching and leaving the dispensing area] will accumulate to levels that could pose a risk to human health from short-term exposure to such fumes, which could lead to harm to persons.

Attributions

4.6.3.3.(2)(d)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.7.

Attributions

4.6.3.3.(2)(c)

Intent(s)

Intent 1. To direct Code users to the drainage requirements in Article 4.1.6.2.

Intent 2. To permit certain dispensers inside buildings, and to eliminate the option of using spill containment measures in Article 4.1.6.1. and Sentence 4.6.7.1.(1).

Provision: 4.6.3.3.(3)

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To expand the application of Subsection 3.3.5. of the National Building Code of Canada [specifically Article 3.3.5.8.] to existing buildings [as opposed to just new buildings].

Provision: 4.6.3.4.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that vehicle impact on, or mechanical damage to, piping will lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that vehicle impact on, or mechanical damage to, piping will lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.6.3.5.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that dispensers will be physically damaged by operations involving watercraft or floatplanes [upon approaching or leaving, during filling operations, etc.], which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that dispensers will be physically damaged by operations involving watercraft or floatplanes [upon approaching or leaving, during filling operations, etc.], which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.6.4.1.(1)

Objective

OS1

Attributions

[F44-OS1.1] Applies to the requirement to provide shut-off devices to all dispensers and pumps.

[F06-OS1.1] Applies to the location and shielding of the shut-off devices.

Intent(s)

Intent 1. To limit the probability that, in the event of an unwanted release, the escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that, in the event of a fire, the escape of liquid will not be minimized, which could lead to the spread of the fire, which could lead to harm to persons.

Intent 3. To limit the probability that the location of the shut-off device will be exposed to fire in the event of a fire near the dispensers, which could lead to delays in reaching and activating the shut-off device, which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OH5

Attributions

[F44-OH5] Applies to the requirement to provide shut-off devices to all dispensers and pumps.

[F06-OH5] Applies to the location and shielding of the shut-off devices.

Intent(s)

Intent 1. To limit the probability that, in the event of an unwanted release, the escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that the location of the shut-off device will be exposed to fire in the event of a fire near the dispensers, which could lead to delays in reaching and activating the shut-off device, which could lead to the escape of liquid not being minimized, which could lead to harm to the public.

Objective

OP1

Attributions

[F44-OP1.1] Applies to the requirement to provide shut-off devices to all dispensers and pumps.

[F06-OP1.1] Applies to the location and shielding of the shut-off devices.

Intent(s)

Intent 1. To limit the probability that, in the event of an unwanted release, the escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that, in the event of a fire, the escape of liquid will not be minimized, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Intent 3. To limit the probability that the location of the shut-off device will be exposed to fire in the event of a fire near the dispensers, which could lead to delays in reaching and activating the shut-off device, which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.6.4.1.(2)

Objective

OS1

Attributions

[F12-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability of delays in reaching and activating the shut-off device in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of delays in reaching and activating the shut-off device in the event of a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability of delays in reaching and activating the shut-off device in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays in reaching and activating the shut-off device in the event of a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability of delays in reaching and activating the shut-off device in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.6.4.2.(1)

Objective

OS1

Attributions

[F12, F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability of delays in reaching and activating the shut-off device in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could

lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of delays in reaching and activating the shut-off device in the event of a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of the fire, which could lead to harm to persons.

Intent 3. To state one of the purposes of the central control console described in Sentence 4.6.8.2.(2).

Objective

OP1

Attributions

[F12, F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability of delays in reaching and activating the shut-off device in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays in reaching and activating the shut-off device in the event of a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Intent 3. To state one of the purposes of the central control console described in Sentence 4.6.8.2.(2).

Objective

OH5

Attributions

[F12, F44-OH5]

Intent(s)

Intent 1. To limit the probability of delays in reaching and activating the shut-off device in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To state one of the purposes of the central control console described in Sentence 4.6.8.2.(2).

Provision: 4.6.4.2.(2)

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability of delays in reaching and activating the shut-off device in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F12-OP1.1, OP1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability of delays in reaching and activating the shut-off device in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays in reaching and activating the shut-off device in the event of a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F12-OS1.1, OS1.1]

Intent(s)

Intent 1. To limit the probability of delays in reaching and activating the shut-off device in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of delays in reaching and activating the shut-off device in the event of a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of the fire, which could lead to harm to persons.

Provision: 4.6.4.3.(1)

Objective

OS1

Attributions

[F12-OS1.1]

Intent(s)

Intent 1. To limit the probability of delay in reaching and closing the valve in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of delay in reaching and closing the valve in the event of a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability of delay in reaching and closing the valve in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F12-OP1.1]

Intent(s)

Intent 1. To limit the probability of delay in reaching and closing the valve in the event of an unwanted release of liquid, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delay in reaching and closing the valve in the event of a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Provision: 4.6.5.1.(1)

Objective

OS1

Attributions

[F81, F20, F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that a hose will leak or fail, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of the hose will lead to static electricity build-up or sparks, which could lead to the ignition of vapour from the liquid transfer and dispensing operation, which could lead to harm to persons.

Objective

OP1

Attributions

[F81, F20, F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that a hose will leak or fail, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81, F20, F43-OH5]

Intent(s)

Intent 1. To limit the probability that a hose will leak or fail, which could lead to the escape of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.6.5.1.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of an unwanted escape of liquid from a hose, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To limit the probability of an unwanted escape of liquid from a hose, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability of an unwanted escape of liquid from a hose, which could lead to harm to the public.

Provision: 4.6.5.1.(3)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.6.5.1.(2) and permit slightly longer lengths of hose if certain measures are taken [e.g. retractable mechanisms] to limit the amount of hose length exposed to the hazards identified in the analysis of Sentence 4.6.5.1.(2).

This is to limit the probability of an unwanted escape of liquid from the hose, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.6.5.1.(2) and permit slightly longer lengths of hose if certain measures are taken [e.g. retractable mechanisms] to limit the amount of hose length exposed to the hazards identified in the analysis of Sentence 4.6.5.1.(2).

This is to limit the probability of an unwanted escape of liquid from the hose, which could lead to harm to the public.

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.6.5.1.(2) and permit slightly longer lengths of hose if certain measures are taken [e.g. retractable mechanisms] to limit the amount of hose length exposed to the hazards identified in the analysis of Sentence 4.6.5.1.(2).

This is to limit the probability of an unwanted escape of liquid from the hose, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.6.5.1.(4)

Intent(s)

Intent 1. To exempt hoses from the application of Sentence 4.6.5.1.(2), which would otherwise restrict the hose length [and to permit unrestricted lengths of delivery hoses], on the basis that this situation is necessary due to the type of vehicle being refuelled.

Provision: 4.6.5.2.(1)

Objective

OS1

Attributions

4.6.5.2.(1)(b) [F81, F43, F01, F20-OS1.1]

Intent(s)

Intent 1. To limit the probability that a hose nozzle valve will leak or fail, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the use of the hose will lead to static electricity build-up or sparks, which could lead to the ignition of vapour from the liquid transfer and dispensing operation, which could lead to harm to persons.

Objective

OP1

Attributions

4.6.5.2.(1)(b) [F81, F43, F20-OP1.1]

Intent(s)

Intent 1. To limit the probability that a hose nozzle valve will leak or fail, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Objective

OH5

Attributions

4.6.5.2.(1)(b) [F81, F43, F20-OH5]

Intent(s)

Intent 1. To limit the probability that a hose nozzle valve will leak or fail, which could lead to the escape of liquid, which could lead to harm to the public.

Attributions

4.6.5.2.(1)(a)

Intent(s)

Intent 1. To direct Code users to Sentence 4.6.5.2.(2).

Provision: 4.6.5.2.(2)

Objective

OS1

Attributions

4.6.5.2.(2)(a) [F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that inadequate control of dispensing operations will lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.6.5.2.(2)(b) [F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that vehicle tank overfill or dropping of the nozzle from the fill pipe will lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.6.5.2.(2)(a) [F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that inadequate control of dispensing operations will lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OP1

Attributions

4.6.5.2.(2)(b) [F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that vehicle tank overfill or dropping of the nozzle from the fill pipe will lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.6.5.2.(2)(a) [F43-OH5]

Intent(s)

Intent 1. To limit the probability that inadequate control of dispensing operations will lead to an unwanted escape of liquid, which could lead to harm to the public.

Objective

OH5

Attributions

4.6.5.2.(2)(b) [F43-OH5]

Intent(s)

Intent 1. To limit the probability that vehicle tank overfill or dropping of the nozzle from the fill pipe will lead to an unwanted escape of liquid, which could lead to harm to the public.

Provision: 4.6.5.2.(3)

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To exempt marine fuel dispensing stations from the application of Clause 4.6.5.2.(2)(b), which would otherwise require automatic hose nozzle valves, if certain conditions are met [dispensing operations must be continuously attended and hose nozzle valves are manually operated], on the basis that marine fuel dispensing stations pose a higher risk of which could lead to harm to the public [water contamination].

The conditions [that are to be met] are to limit the probability that inadequate control of dispensing operations will lead to an unwanted escape of liquid, which could lead to harm to the public.

Intent 2. To state the application of Clause 4.6.5.2.(2)(a).

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To exempt marine fuel dispensing stations from the application of Clause 4.6.5.2.(2)(b), which would otherwise require automatic hose nozzle valves, if certain conditions are met [dispensing operations must be continuously attended and hose nozzle valves are manually operated], on the basis that marine fuel dispensing stations pose a higher fire risk.

The conditions [that are to be met] are to limit the probability that inadequate control of dispensing operations will lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To state the application of Clause 4.6.5.2.(2)(a).

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To exempt marine fuel dispensing stations from the application of Clause 4.6.5.2.(2)(b), which would otherwise require automatic hose nozzle valves, if certain conditions are met [dispensing operations must be continuously attended and hose nozzle valves are manually operated], on the basis that marine fuel dispensing stations pose a higher fire risk.

The conditions [that are to be met] are to limit the probability that inadequate control of dispensing operations will lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To state the application of Clause 4.6.5.2.(2)(a).

Provision: 4.6.5.2.(4)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that driving away from a vehicle being filled while the dispensing nozzle is still in the vehicle tank fill opening will lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that driving away from a vehicle being filled while the dispensing nozzle is still in the vehicle tank fill opening will lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that driving away from a vehicle being filled while the dispensing nozzle is still in the vehicle tank fill opening will lead to an unwanted escape of liquid, which could lead to harm to the public.

Provision: 4.6.5.2.(5)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that the hose nozzle valve will not shut off when the flow of liquid is stopped, which could lead to the hose nozzle valve being in the open position when dispensing operations are resumed at the dispenser, which could lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that the hose nozzle valve will not shut off when the flow of liquid is stopped, which could lead to the hose nozzle valve being in the open position when dispensing operations are resumed at the dispenser, which could lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that the hose nozzle valve will not shut off when the flow of liquid is stopped, which could lead to the hose nozzle valve being in the open position when dispensing operations are resumed at the dispenser, which could lead to an unwanted escape of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.6.6.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 4.6.6.

Provision: 4.6.6.2.(1)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that excessive working pressure will develop in pumps or associated control equipment, which could lead to failure of the pumps or equipment, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F20, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that excessive working pressure will develop in pumps or associated control equipment, which could lead to failure of the pumps or equipment, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that excessive working pressure will develop in pumps or associated control equipment, which could lead to failure of the pumps or equipment, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.6.6.2.(2)

Objective

OS1

Attributions

[F81, F20, F22-OS1.1]

Intent(s)

Intent 1. To limit the probability that vehicle impact on, or mechanical damage to, the pumps will lead to failure of the pumps or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that vibration or excessive movement of the pumps or associated piping will lead to failure of the pumps or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81, F20, F22-OP1.1]

Intent(s)

Intent 1. To limit the probability that vehicle impact on, or mechanical damage to, the pumps will lead to failure of the pumps or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that vibration or excessive movement of the pumps or associated piping will lead to failure of the pumps or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81, F20, F22-OH5]

Intent(s)

Intent 1. To limit the probability that vehicle impact on, or mechanical damage to, the pumps will lead to failure of the pumps or associated piping, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that vibration or excessive movement of the pumps or associated piping will lead to failure of the pumps or associated piping, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.6.6.3.(1)

Objective

OS1

Attributions

[F81, F04, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that vehicle impact on, or mechanical damage to, the valve mounting area will lead to failure of the valve and piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Intent 2. To limit the probability that vehicle impact on, or mechanical damage to, the dispenser will lead to failure of the dispenser piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To limit the probability that fire exposure on the dispenser and associated piping will lead to failure of the dispenser piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81, F04, F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that vehicle impact on, or mechanical damage to, the valve mounting area will lead to failure of the valve and piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that vehicle impact on, or mechanical damage to, the dispenser will lead to failure of the dispenser piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 3. To limit the probability that fire exposure on the dispenser and associated piping will lead to failure of the dispenser piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81, F43-OH5]

Intent(s)

Intent 1. To limit the probability that vehicle impact on, or mechanical damage to, the valve mounting area will lead to failure of the valve and piping, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that vehicle impact on, or mechanical damage to, the dispenser will lead to failure of the dispenser piping, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.6.6.3.(2)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the valve will not operate properly when subjected to a vehicle or physical impact, which could lead to failure of the valve or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the valve will not operate properly when subjected to a fire exposure, which could lead to failure of the valve or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the valve will not operate properly when subjected to a vehicle or physical impact, which could lead to failure of the valve or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the valve will not operate properly when subjected to a fire exposure, which could lead to failure of the valve or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that the valve will not operate properly when subjected to a vehicle or physical impact, which could lead to failure of the valve or associated piping, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that the valve will not operate properly when subjected to a fire exposure, which could lead to failure of the valve or associated piping, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.6.6.4.(1)

Objective

OP3

Attributions

4.6.6.4.(1)(a) [F01-OP3.1]

Intent(s)

Intent 1. To limit the probability that an ignition source from adjacent buildings or facilities will ignite vapour from the pump, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 2. To limit the probability that vapour from the pump will accumulate on adjacent buildings or facilities, which could lead to ignition of the vapour from an ignition source on adjacent buildings or facilities, which could lead to a fire or explosion, which could lead to damage to adjacent buildings or facilities.

Intent Statements: NFC 2010

Objective

OP3

Attributions

4.6.6.4.(1)(b) [F01-OP3.1]

Intent(s)

Intent 1. To limit the probability that vapour will enter adjacent buildings or facilities through openings in the building, which could lead to the accumulation of vapour inside the building, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

4.6.6.4.(1)(a) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that an ignition source from adjacent buildings or facilities will ignite vapour from the pump, which could lead to a fire or explosion, which could lead to harm to persons in the building or facility.

Intent 2. To limit the probability that vapour from the pump will accumulate on adjacent buildings or facilities, which could lead to ignition of the vapour from an ignition source on adjacent buildings or facilities, which could lead to a fire or explosion, which could lead to harm to persons in adjacent buildings or facilities.

Objective

OS1

Attributions

4.6.6.4.(1)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will enter a building through openings in the building, which could lead to the accumulation of vapour inside the building, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.6.6.4.(2)

Intent(s)

Intent 1. To expand the application of Article 4.6.2.6.

Provision: 4.6.6.5.(1)

Objective

OS1

Attributions

[F81, F12, F20, F22-OS1.1]

Intent(s)

Intent 1. To limit the probability that excessive movement, vibration or watercraft impact on, or mechanical damage to, the tanks or pumps will lead to failure of the tanks or pumps and associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of delays or ineffectiveness in conducting spill control or emergency response operations, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81, F12, F20, F22-OP1.1]

Intent(s)

Intent 1. To limit the probability that excessive movement, vibration or watercraft impact on, or mechanical damage to, the tanks or pumps will lead to failure of the tanks or pumps and associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays or ineffectiveness in conducting spill control or emergency response operations, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81, F12, F20, F22-OH5]

Intent(s)

Intent 1. To limit the probability that excessive movement, vibration or watercraft impact on, or mechanical damage to, the tanks or pumps will lead to failure of the tanks or pumps and associated piping, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability of delays or ineffectiveness in conducting spill control or emergency response operations, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Provision: 4.6.6.5.(2)

Objective

OS1

Attributions

[F44, F02-OS1.1]

Intent(s)

Intent 1. To exempt pier storage tanks from the application of Sentence 4.6.6.5.(1), which would otherwise require the tanks to be located on the shore or a solid-fill type pier, if certain measures are taken.

These measures are to limit the probability that the escape of liquid from the tanks:

- will spread beyond the tank area, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and

Intent Statements: NFC 2010

- will be in such large quantities that it cannot be controlled by emergency responders, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F44, F02-OP1.1]

Intent(s)

Intent 1. To exempt pier storage tanks from the application of Sentence 4.6.6.5.(1), which would otherwise require the tanks to be located on the shore or a solid-fill type pier, if certain measures are taken.

These measures are to limit the probability that the escape of liquid from the tanks:

- will spread beyond the tank area, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- will be in such large quantities that it cannot be controlled by emergency responders, which could lead to the spread of fire, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To exempt pier storage tanks from the application of Sentence 4.6.6.5.(1), which would otherwise require the tanks to be located on the shore or a solid-fill type pier, if certain measures are taken.

These measures are to limit the probability that escaped liquid from the tanks will spread beyond the tank area, which could lead to harm to the public.

Provision: 4.6.6.5.(3)

Objective

OS1

Attributions

[F22-OS1.1]

Intent(s)

Intent 1. To limit the probability that water or ice movement will lead to the failure and leakage of the tank or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F22-OP1.1]

Intent(s)

Intent 1. To limit the probability that water or ice movement will lead to the failure and leakage of the tank or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F22-OH5]

Intent(s)

Intent 1. To limit the probability that water or ice movement will lead to the failure and leakage of the tank or associated piping, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.6.6.5.(4)

Intent(s)

Intent 1. To clarify that storage tanks are permitted to be located aboveground if certain conditions make it impractical for the tanks to be located underground.

Provision: 4.6.6.5.(5)

Objective

OS1

Attributions

[F81, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that damage or rupture of the supply line to the dispenser will lead to gravity draining of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81, F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that damage or rupture of the supply line to the dispenser will lead to gravity draining of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81, F43-OH5]

Intent(s)

Intent 1. To limit the probability that damage or rupture of the supply line to the dispenser will lead to gravity draining of the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.6.6.5.(6)

Objective

OP1

Attributions

[F43, F01-OP1.1] Applies where dispensing is from a floating structure.

Intent(s)

Intent 1. To exempt certain situations from the application of the first part of this Sentence [Sentence 4.6.6.5.(6)], which would otherwise require piping to conform to Section 4.5., and permit alternate means of transfer [flexible hose], if certain measures are taken [suitable lengths of flexible hose designed in conformance with good engineering practice].

These measures are to limit the probability of:

- a fire or explosion hazard [e.g. static charges], which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- the escape of liquid [e.g. hose rupture], which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43-OH5] Applies where dispensing is from a floating structure.

Intent(s)

Intent 1. To exempt certain situations from the application of the first part of this Sentence [Sentence 4.6.6.5.(6)], which would otherwise require piping to conform to Section 4.5., and permit alternate means of transfer [flexible hose], if certain measures are taken [suitable lengths of flexible hose designed in conformance with good engineering practice].

These measures are to limit the probability of the escape of liquid [e.g. hose rupture], which could lead to harm to the public.

Objective

OS1

Attributions

[F43, F01-OS1.1] Applies where dispensing is from a floating structure.

Intent(s)

Intent 1. To exempt certain situations from the application of the first part of this Sentence [Sentence 4.6.6.5.(6)], which would otherwise require piping to conform to Section 4.5., and permit alternate means of transfer [flexible hose], if certain measures are taken [suitable lengths of flexible hose designed in conformance with good engineering practice].

These measures are to limit the probability of:

- a fire or explosion hazard [e.g. static charges], which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- the escape of liquid [e.g. hose rupture], which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent(s)

Intent 1. To expand the application of Section 4.5., which would otherwise not apply at fuel dispensing stations [as stated in Clause 4.5.1.1.(2)(c)].

Provision: 4.6.7.1.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6.

Objective

OS1

Attributions

4.6.7.1.(1)(b) [F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will lead to a fire or to the spread of fire outside the spill area, which could lead to harm to persons, including emergency responders, in other parts of the building, adjacent buildings or adjacent outdoor areas.

Objective

OP1

Attributions

4.6.7.1.(1)(b) [F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will lead to a fire or to the spread of fire outside the spill area, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.6.7.1.(1)(b) [F44-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid, which could lead to harm to the public.

Provision: 4.6.8.1.(1)

Objective

OS1

Attributions

[F43, F01, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that the duties described in Article 4.6.8.5. will not be fulfilled and the fuel dispensing procedures described in Article 4.6.8.6. will not be followed, which could lead to:

- escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- a source of ignition, which could lead to the ignition of vapour from dispensing operations, which could lead to harm to persons.

Intent Statements: NFC 2010

Intent 2. To state the application of the duties of attendants described in Article 4.6.8.5. and fuel dispensing procedures described in Article 4.6.8.6.

Objective

OP1

Attributions

[F43, F44, F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that the duties described in Article 4.6.8.5. will not be fulfilled and the fuel dispensing procedures described in Article 4.6.8.6. will not be followed, which could lead to:

- escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- a source of ignition, which could lead to the ignition of vapour from dispensing operations, which could lead to damage to the building or facility.

Intent 2. To state the application of the duties of attendants described in Article 4.6.8.5. and fuel dispensing procedures described in Article 4.6.8.6.

Objective

OH5

Attributions

[F43, F44-OH5]

Intent(s)

Intent 1. To limit the probability that the duties described in Article 4.6.8.5. will not be fulfilled and the fuel dispensing procedures described in Article 4.6.8.6. will not be followed, which could lead to escape and spread of liquid, which could lead to harm to the public.

Intent 2. To state the application of the duties of attendants described in Article 4.6.8.5. and fuel dispensing procedures described in Article 4.6.8.6.

Provision: 4.6.8.1.(2)

Objective

OS1

Attributions

[F43, F01, F34-OS1.1]

Intent(s)

Intent 1. To exempt certain fuel dispensing stations from the application of Sentence 4.6.8.1.(1), which would otherwise require attendants, and permit unattended fuel dispensing stations [self-service outlets], if certain conditions are met [the stations do not serve the general public and the fuel dispensing is done by authorized customers, i.e. having received proper training or instructions in safe dispensing procedures].

These conditions are to limit the probability of:

- the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F34-OH5]

Intent(s)

Intent 1. To exempt certain fuel dispensing stations from the application of Sentence 4.6.8.1.(1), which would otherwise require attendants, and permit unattended fuel dispensing stations [self-service outlets], if certain conditions are met [the stations do not serve the general public and the fuel dispensing is done by authorized customers, i.e. having received proper training or instructions in safe dispensing procedures].

These conditions are to limit the probability of the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F43, F01, F34-OP1.1]

Intent(s)

Intent 1. To exempt certain fuel dispensing stations from the application of Sentence 4.6.8.1.(1), which would otherwise require attendants, and permit unattended fuel dispensing stations [self-service outlets], if certain conditions are met [the stations do not serve the general public and the fuel dispensing is done by authorized customers, i.e. having received proper training or instructions in safe dispensing procedures].

These conditions are to limit the probability of:

- the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.6.8.1.(3)

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of:

- the escape of liquid, or

Intent Statements: NFC 2010

- a fire or explosion hazard.

This is to limit the probability of the ignition of vapour from a nearby ignition source, which could lead to harm to persons

Objective

OP1

Attributions

[F43, F01-OP1.1]

Intent(s)

Intent 1. To limit the probability of:

- the escape of liquid, or
- a fire or explosion hazard.

This is to limit the probability of the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.6.8.1.(4)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with attendant duties or dispensing procedures, which could lead to:

- the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with attendant duties or dispensing procedures, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with attendant duties or dispensing procedures, which could lead to:

- the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.6.8.2.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with dispensing operations, which could lead to:

- the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with dispensing operations, which could lead to:

- the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with dispensing operations, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.6.8.2.(2)

Objective

OS1

Attributions

[F43, F44, F12, F01-OS1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that attendants will not be able to see and identify risks, improper dispensing operations or any equipment failures, which could lead to inappropriate action by the attendants, which could lead to:

- the escape or spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F44, F12, F01-OH5]

Intent(s)

Intent 1. To limit the probability that attendants will not be able to see and identify risks, improper dispensing operations or any equipment failures, which could lead to inappropriate action by the attendants, which could lead to the escape or spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F43, F44, F12, F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that attendants will not be able to see and identify risks, improper dispensing operations or any equipment failures, which could lead to inappropriate action by the attendants, which could lead to:

- the escape or spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.6.8.2.(3)

Objective

OS1

Attributions

[F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the escape of liquid will not be minimized in the event of a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the escape of liquid will not be minimized in the event of a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Provision: 4.6.8.2.(4)

Objective

OS1

Attributions

[F43, F44, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that attendants and persons near the dispensers will not be able to communicate, which could lead to improper dispensing operations or sources of ignition, which could lead to:

- the escape of liquid, or the spread of liquid not being minimized in the event of an unwanted release, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F43, F44, F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that attendants and persons near the dispensers will not be able to communicate, which could lead to improper dispensing operations or sources of ignition, which could lead to:

Intent Statements: NFC 2010

- the escape of liquid, or the spread of liquid not being minimized in the event of an unwanted release, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43, F44-OH5]

Intent(s)

Intent 1. To limit the probability that attendants and persons near the dispensers will not be able to communicate, which could lead to improper dispensing operations or sources of ignition, which could lead to the escape of liquid or the spread of liquid not being minimized in the event of an unwanted release, which could lead to harm to the public.

Provision: 4.6.8.2.(5)

Objective

OS1

Attributions

[F43, F44, F12, F01-OS1.1]

Intent(s)

Intent 1. To exempt certain operations at stations from the application of Sentence 4.6.8.2.(2), which would otherwise implicitly require the attendant to be continuously on duty at the control console, if certain measures are taken.

These measures are to limit the probability that the attendants will be delayed in carrying out their duties in the event of an emergency, which could lead to:

- the escape or spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F43, F44, F12, F01-OP1.1]

Intent(s)

Intent 1. To exempt certain operations at stations from the application of Sentence 4.6.8.2.(2), which would otherwise implicitly require the attendant to be continuously on duty at the control console, if certain measures are taken.

These measures are to limit the probability that the attendants will be delayed in carrying out their duties in the event of an emergency, which could lead to:

- the escape or spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and

- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43, F44, F12-OH5]

Intent(s)

Intent 1. To exempt certain operations at stations from the application of Sentence 4.6.8.2.(2), which would otherwise implicitly require the attendant to be continuously on duty at the control console, if certain measures are taken.

These measures are to limit the probability that the attendants will be delayed in carrying out their duties in the event of an emergency, which could lead to the escape or spread of liquid, which could lead to harm to the public.

Provision: 4.6.8.3.(1)

Objective

OS1

Attributions

[F12, F44, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that attendants will be delayed in carrying out their duties in the event of an emergency, which could lead to:

- the escape of liquid not being minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F12, F44-OH5]

Intent(s)

Intent 1. To limit the probability that attendants will be delayed in carrying out their duties in the event of an emergency, which could lead to the escape of liquid not being minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F12, F44, F01-OP1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that attendants will be delayed in carrying out their duties in the event of an emergency, which could lead to:

- the escape of liquid not being minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.6.8.4.(1)

Intent(s)

Intent 1. To state the application of Sentences 4.6.8.4.(2) to 4.6.8.4.(6).

Provision: 4.6.8.4.(2)

Intent(s)

Intent 1. To direct Code users to the pertinent provisions of Section 4.6. that are applicable to the installation of dispensers.

Provision: 4.6.8.4.(3)

Objective

OH5

Attributions

[F34-OH5]

Intent(s)

Intent 1. To limit the probability that dispensing operations will be carried out by untrained persons in an improper or unsafe manner, which could lead to the escape or spread of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that dispensing operations will be carried out by untrained persons in an improper or unsafe manner, which could lead to:

- the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F34-OP1.1]

Intent(s)

Intent 1. To limit the probability that dispensing operations will be carried out by untrained persons in an improper or unsafe manner, which could lead to:

- the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.6.8.4.(4)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with dispensing operations, which could lead to:

- the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with dispensing operations, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that persons will not be familiar with dispensing operations, which could lead to:

- the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility, and

Intent Statements: NFC 2010

- a fire or explosion hazard, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.6.8.4.(5)

Objective

OS1

Attributions

[F13-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that notification to emergency responders of an emergency will be delayed, which could lead to a delay in emergency response operations, which could lead to the escape of liquid not being minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that notification to emergency responders of an emergency will be delayed, which could lead to a delay in emergency response operations, which could lead to the escape of liquid not being minimized in the event of a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OH5

Attributions

[F13-OH5]

Intent(s)

Intent 1. To limit the probability that notification to emergency responders of an emergency will be delayed, which could lead to a delay in emergency response operations, which could lead to the escape of liquid not being minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F13-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that notification to emergency responders of an emergency will be delayed, which could lead to a delay in emergency response operations, which could lead to the escape of liquid not being minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that notification to emergency responders of an emergency will be delayed, which could lead to a delay in emergency response operations, which could lead to the escape of liquid not being minimized in the event of a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Provision: 4.6.8.4.(6)

Objective

OS1

Attributions

4.6.8.4.(6)(a) [F12-OS1.1, OS1.2] Applies to the requirement that the emergency instructions be conspicuously posted to advise the user, in the event of a spill or accident.

Intent(s)

Intent 1. To limit the probability of delay in activating the shut-off device in the event of an unwanted release, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability of delay in activating the shut-off device in the event of a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OH5

Attributions

4.6.8.4.(6)(b) [F13-OH5]

Intent(s)

Intent 1. To limit the probability that notification to emergency responders of an emergency will be delayed, which could lead to a delay in emergency response operations, which could lead to the escape of liquid not being minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

4.6.8.4.(6)(b) [F13-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that notification to emergency responders of an emergency will be delayed, which could lead to a delay in emergency response operations, which could lead to the escape of liquid not being minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that notification to emergency responders of an emergency will be delayed, which could lead to a delay in emergency response operations, which could lead to the escape of liquid not being minimized in the event of a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Objective

OP1

Attributions

4.6.8.4.(6)(a) [F12-OP1.1, OP1.2] Applies to the requirement that the emergency instructions be conspicuously posted to advise the user, in the event of a spill or accident.

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability of delay in activating the shut-off device in the event of an unwanted release, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delay in activating the shut-off device in the event of a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.6.8.4.(6)(a) [F12-OH5] Applies to the requirement that the emergency instructions be conspicuously posted to advise the user, in the event of a spill or accident.

Intent(s)

Intent 1. To limit the probability of delay in activating the shut-off device in the event of an unwanted release, which could lead to the escape of liquid not being minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

4.6.8.4.(6)(b) [F13-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that notification to emergency responders of an emergency will be delayed, which could lead to a delay in emergency response operations, which could lead to the escape of liquid not being minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that notification to emergency responders of an emergency will be delayed, which could lead to a delay in emergency response operations, which could lead to the escape of liquid not being minimized in the event of a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Provision: 4.6.8.5.(1)

Objective

OS1

Attributions

4.6.8.5.(1)(d) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that sources of ignition will ignite vapour, which could lead to harm to persons.

Objective

OS1

Attributions

4.6.8.5.(1)(e) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that sources of ignition will ignite vapour, which could lead to harm to persons.

Intent 2. To limit the probability that vapours will accumulate in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.6.8.5.(1)(a), 4.6.8.5.(1)(b), 4.6.8.5.(1)(c) [F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the escape of liquid will not be minimized in the event of a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Objective

OS1

Attributions

4.6.8.5.(1)(f) [F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the escape of liquid will not be minimized in the event of a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OS1

Attributions

4.6.8.5.(1)(a), 4.6.8.5.(1)(b), 4.6.8.5.(1)(c) [F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the escape of liquid will not be minimized in the event of a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

4.6.8.5.(1)(e) [F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that sources of ignition will ignite vapour, which could lead to damage to the building or facility.

Intent 2. To limit the probability that vapours will accumulate in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.6.8.5.(1)(a), 4.6.8.5.(1)(b), 4.6.8.5.(1)(c) [F44-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

4.6.8.5.(1)(f) [F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the escape of liquid will not be minimized in the event of a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.6.8.5.(1)(f) [F44-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

4.6.8.5.(1)(c) [F01, F44-OS1.1] Applies to containers that are located in a vehicle.

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape and spread into the interior of a vehicle, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons in or near the vehicle.

Attributions

4.6.8.5.(1)(c)

Intent(s)

Intent 1. To direct Code users to Article 4.2.3.1.

Provision: 4.6.8.5.(2)

Objective

OS1

Attributions

4.6.8.5.(2)(b) [F43-OS1.1] Applies to containers not being filled beyond their safe filling level.

Intent(s)

Intent 1. To limit the probability that liquid will escape from containers, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.6.8.5.(2)(a) [F44, F01-OS1.1]

4.6.8.5.(2)(b) [F44, F01-OS1.1] Applies to containers being filled only after having been removed from the floatplane or watercraft.

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape and spread into the interior of watercraft, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons in or near the watercraft.

Objective

OH5

Attributions

4.6.8.5.(2)(b) [F43-OH5] Applies to containers not being filled beyond their safe filling level.

Intent(s)

Intent 1. To limit the probability that liquid will escape from containers, which could lead to harm to the public.

Objective

OS1

Attributions

4.6.8.5.(2)(b) [F44-OS1.1] Applies to the removal of containers from watercraft or floatplanes.

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape and spread into the interior of a watercraft or floatplane, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons in or near the watercraft or floatplane.

Provision: 4.6.8.5.(3)

Objective

OS1

Attributions

[F12-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability of inappropriate actions by personnel during emergency situations, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that delays or inefficiencies in responding to a fire emergency will lead to the spread of the fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Provision: 4.6.8.6.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour generated by dispensing operations or caused by an unwanted escape of liquid will be ignited, which could lead to harm to persons.

Provision: 4.6.8.6.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To exempt liquids with a lower flammability risk from the application of Sentence 4.6.8.6.(1), which would otherwise require the engines to be turned off, if certain measures are taken [a minimum distance is maintained].

These measures are to limit the probability that:

- the vapour from nearby Class I liquid dispensers will be ignited by the engine, which could lead to harm to persons, and
- the vapour from nearby Class I liquid dispensers will be drawn into the engine's intake system, which could lead to over-revving or overheating of the engine, which could lead to a fire, which could lead to harm to persons.

Provision: 4.6.8.6.(3)

Objective

OS1

Attributions

[F01, F43, F44, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will escape and spread outside of the fuel dispensing station area, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons nearby.

Intent 2. To limit the probability that ignition sources outside of the fuel dispensing station area will ignite vapour, which could lead to a fire or explosion involving the vehicle being refuelled, which could lead to harm to persons nearby.

Intent 3. To limit the probability that vehicles will become involved in a collision while being refuelled, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.6.8.6.(4)

Objective

OS1

Attributions

4.6.8.6.(4)(c) [F44-OS1.1] Applies to the requirement to immediately apply an absorbent material.

Intent(s)

Intent 1. To limit the probability that the liquid will spread beyond the spill area, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

4.6.8.6.(4)(c) [F44-OH5] Applies to the requirement to immediately apply an absorbent material.

Intent(s)

Intent 1. To limit the probability that the liquid will spread beyond the spill area, which could lead to harm to the public.

Objective

OS1

Attributions

4.6.8.6.(4)(d) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will be ignited, which could lead to harm to persons.

Objective

OS1

Attributions

4.6.8.6.(4)(a), 4.6.8.6.(4)(b), 4.6.8.6.(4)(e) [F43-OS1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that liquid will escape, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.6.8.6.(4)(c) [F44-OP1.1] Applies to the requirement to immediately apply an absorbent material.

Intent(s)

Intent 1. To limit the probability that the liquid will spread beyond the spill area, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.6.8.6.(4)(a), 4.6.8.6.(4)(b), 4.6.8.6.(4)(e) [F43-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape, which could lead to harm to the public.

Attributions

4.6.8.6.(4)(c)

Intent(s)

Intent 1. To direct Code users to Article 4.1.6.3.

Attributions

4.6.8.6.(4)(c)

Intent(s)

Intent 1. To waive the requirement for applying an absorbent material if it is in conflict with other duties carried out by attendants, e.g. stopping the flow of liquid [which would have priority], as required in Article 4.6.8.5.

Intent 2. To clarify that the duties of attendants in Article 4.6.8.5. have priority and take precedence.

Objective

OS1

Attributions

4.6.8.6.(4)(f) [F01, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid or vapour will escape and spread into the interior of a vehicle, floatplane or watercraft, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.6.8.7.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour generated by the dispensing operation or caused by an unwanted escape of liquid will be ignited, which could lead to harm to persons.

Provision: 4.6.8.8.(1)

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "At least one ... sign ... shall be provided for each dispenser in a location visible to every driver approaching the dispenser."

Intent(s)

Intent 1. To limit the probability that signs [warning of the ignition sources as described in Sentence 4.6.8.8.(2)] will not be seen, which could lead to the ignition of vapour [resulting from the normal operation of the dispenser or an unwanted escape of liquid], which could lead to harm to persons.

Objective

OS1

Attributions

[F80-OS1.1] Applies to the portion of Code text: "... At least one weather-resistant sign ..."

Intent(s)

Intent 1. To limit the probability that weather will prematurely deteriorate the signs [warning of the ignition sources as described in Sentence 4.6.8.8.(2)], which could lead to the signs not being seen, which could lead to the ignition of vapour [resulting from the normal operation of the dispenser or an unwanted escape of liquid], which could lead to harm to persons.

Intent(s)

Intent 1. To state the application of Sentences 4.6.8.8.(2) to 4.6.8.8.(4).

Provision: 4.6.8.8.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that persons will not be informed of the fire hazards associated with such ignition sources, which could lead to the ignition of vapour [resulting from the normal operation of the dispenser or an unwanted escape of liquid], which could lead to harm to persons.

Intent 2. To supersede specifications for NO SMOKING signs in Article 2.4.2.2.

Provision: 4.6.8.8.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the information on the signs will not be legible, which could lead to the instructions on the sign not being read or understood, which could lead to the ignition of vapour [resulting from the normal operation of the dispenser or an unwanted escape of liquid], which could lead to harm to persons.

Intent 2. To supersede specifications for NO SMOKING signs in Article 2.4.2.2.

Provision: 4.6.8.8.(4)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the information on the signs will not be legible, which could lead to the instructions on the sign not being read or understood, which could lead to the ignition of vapour [resulting from the normal operation of the dispenser or an unwanted escape of liquid], which could lead to harm to persons.

Intent 2. To supersede specifications for NO SMOKING signs in Article 2.4.2.2.

Provision: 4.6.9.1.(1)

Objective

OP1

Attributions

[F12, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using the extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Intent 2. To supersede the general provisions stated in Article 2.1.5.1. regarding the number and rating of portable extinguishers.

Objective

OS1

Attributions

[F12, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using the extinguishers will be delayed or ineffective in controlling or suppressing the fire, which could lead to the spread of the fire, which could lead to harm to persons.

Intent 2. To supersede the general provisions stated in Article 2.1.5.1. regarding the number and rating of portable extinguishers.

Provision: 4.6.9.2.(1)

Intent(s)

Intent 1. To direct Code users to Article 4.1.6.3.

Provision: 4.7.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 4.7.

Provision: 4.7.2.1.(1)

Objective

OS1

Intent(s)

Intent 1. To limit the probability of the unwanted escape of liquids or vapours from the containers, which could lead to the accumulation and subsequent ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Intent(s)

Intent 1. [Clause (a)] To direct Code users to Article 4.7.2.4.

Intent 2. [Clause (b)] To direct Code users to Section 4.3.

Provision: 4.7.2.2.(1)

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the railway cars will spread to the storage tanks, which could lead to damage to the facility.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F22, F21, F81-OH5]

Intent(s)

Intent 1. To limit the probability that normal train operations will lead to excessive vibrations or ground settling, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that a train derailment will lead to impact with or damage to the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the storage tanks will spread to railway cars, which could lead to damage to the facility.

Objective

OS1

Attributions

[F22, F21, F81-OS1.1] [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that normal train operations will lead to excessive vibrations or ground settling, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that a train derailment will lead to impact with or damage to the tank, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To limit the probability that a fire involving railway cars will spread to the storage tanks, which could lead to harm to persons nearby.

Intent 4. To limit the probability that a fire involving the storage tanks will spread to the railway cars, which could lead to harm to persons nearby.

Provision: 4.7.2.3.(1)

Objective

OH5

Attributions

[F20, F82-OH5]

Intent(s)

Intent 1. To limit the probability that shock pressure will lead to the failure of the storage tanks, piping, pumps, valves or associated components, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F20, F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that shock pressure will lead to the failure of the storage tanks, piping, pumps, valves or associated components, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the facility.

Objective

OS1

Attributions

[F20, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that shock pressure will lead to the failure of the storage tanks, piping, pumps, valves or associated components, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.7.2.4.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.2.7.

Provision: 4.7.2.4.(2)

Intent(s)

Intent 1. To exempt bulk plants from the requirements in Subsection 4.2.11. regarding the distance between the piles and property lines and the distance between piles when the containers are stored in an area that does not present a hazard to adjacent buildings or facilities.

Intent 2. To direct Code users to Subsection 4.2.11.

Provision: 4.7.2.5.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6.

Provision: 4.7.2.6.(1)

Intent(s)

Intent Statements: NFC 2010

Intent 1. To expand the application of Article 3.3.2.6., which would otherwise apply only to sites for container storage in excess of 100 m².

Provision: 4.7.3.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that Class II or IIIA liquids will become contaminated with [more volatile] Class I liquids, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.7.3.2.(1)

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will gain access to the bulk plant, which could lead to the introduction of ignition sources or the unwanted escape of liquid, which could lead to the ignition of vapour, which could lead to harm to persons.

Objective

OH5

Attributions

[F34-OH5]

Intent(s)

Intent 1. To limit the probability that unauthorized persons will gain access to the bulk plant, which could lead to the unwanted escape of liquid, which could lead to harm to the public.

Provision: 4.7.3.2.(2)

Objective

OS1

Attributions

4.7.3.2.(2)(a) [F81, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that damage or rupture of the supply line to the dispenser will lead to gravity draining of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.7.3.2.(2)(a) [F81, F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that damage or rupture of the supply line to the dispenser will lead to gravity draining of the tank, which could lead to the escape and spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the facility.

Objective

OH5

Attributions

4.7.3.2.(2)(a) [F81, F43-OH5]

Intent(s)

Intent 1. To limit the probability that damage or rupture of the supply line to the dispenser will lead to gravity draining of the tank, which could lead to the escape and spread of liquid, which could lead to harm to the public.

Attributions

4.7.3.2.(2)(b)

Intent(s)

Intent 1. To expand the application of Sentence 4.6.6.3.(1).

Provision: 4.7.3.3.(1)

Intent(s)

Intent 1. To direct Code users to Article 4.1.8.2.

Provision: 4.7.4.1.(1)

Objective

OS1

Attributions

[F01-OS1.1] [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that an ignition source from an adjacent building, tank or facility will ignite vapours generated by the loading and unloading operations, which could lead to harm to persons in the building or facility.

Intent 2. To limit the probability that a fire originating in the loading or unloading area will spread to adjacent buildings, tanks or facilities, which could lead to harm to persons in adjacent buildings or facilities.

Intent Statements: NFC 2010

Objective

OP3

Attributions

[F01, F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that vapours generated by the loading and unloading operations will accumulate in or near adjacent buildings, tanks or facilities, which could lead to the ignition of the vapours from an ignition source in or near such adjacent buildings or facilities, which could lead to a fire or explosion, which could lead to damage to adjacent buildings or facilities.

Intent 2. To limit the probability that a fire originating in the loading or unloading area will spread to adjacent buildings, tanks or facilities, which could lead to damage to adjacent buildings or facilities.

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire originating in adjacent buildings, tanks, vehicles or facilities will spread to the loading or unloading area, which could lead to damage to the building or facility.

Provision: 4.7.4.1.(2)

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving railway cars will spread to the flammable or combustible liquid piping systems at the loading and unloading facilities, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F22, F21, F81-OS1.1] [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that normal train operations will lead to excessive vibrations or ground settling, which could lead to the failure of flammable or combustible liquid piping systems at the loading and unloading facilities, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that a train derailment will lead to impact with or damage to the flammable or combustible liquid piping systems at the loading and unloading facilities, which could lead to the

failure of the piping systems, which could lead to the escape of liquid, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To limit the probability that a fire involving railway cars will spread to the flammable or combustible liquid piping systems at the loading and unloading facilities, which could lead to harm to persons nearby.

Intent 4. To limit the probability that a fire involving the flammable or combustible liquid piping systems at the loading and unloading facilities will spread to the railway cars, which could lead to harm to persons nearby.

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the flammable or combustible liquid piping systems at the loading and unloading facilities will spread to the railway cars, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F21, F22, F81-OH5]

Intent(s)

Intent 1. To limit the probability that normal train operations will lead to excessive vibrations or ground settling, which could lead to the failure of flammable or combustible liquid piping systems at the loading and unloading facilities, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that a train derailment will lead to impact with or damage to the flammable or combustible liquid piping systems at the loading and unloading facilities, which could lead to the failure of the piping systems, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.7.4.1.(3)

Intent(s)

Intent 1. To define loading and unloading facilities referred to in Subsection 4.7.4.

Intent 2. To state the application of Subsection 4.7.4.

Provision: 4.7.4.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that Class II or IIIA liquids will become contaminated with [more volatile] Class I liquids, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.7.4.3.(1)

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will backflow during transfer operations, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will backflow during transfer operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.7.4.3.(2)

Objective

OS1

Attributions

[F43, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will leak or spill during transfer operations, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F82-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will leak or spill during transfer operations, which could lead to harm to the public.

Provision: 4.7.4.4.(1)

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will leak or spill during or between transfer operations, which could lead to harm to the public.

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will leak or spill during or between transfer operations, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.7.4.4.(2)

Objective

OS1

Attributions

[F43, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that an inadequate control of dispensing operations will lead to an unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that overfilling of tank vehicles or tank cars will lead to the unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43, F81-OH5]

Intent(s)

Intent 1. To limit the probability that an inadequate control of dispensing operations will lead to an unwanted escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that overfilling of tank vehicles or tank cars will lead to the unwanted escape of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.7.4.5.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static electric charges will build up, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Provision: 4.7.4.5.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static electric charges will build up, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Intent 2. To limit the probability that a distant lighting strike will travel through the rails, which could lead to the creation of a source of ignition, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Provision: 4.7.4.5.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static electric charges will build up, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Intent 2. To direct Code users to Subsection 4.1.4. for requirements relating to electrical equipment.

Provision: 4.7.4.5.(4)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static electric charges will build up, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Provision: 4.7.4.5.(5)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static electric charges will build up, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Provision: 4.7.4.6.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the free-fall or splashing of liquid as it enters the tank will lead to the buildup of static electric charges, which could lead to the ignition of vapour, which could lead to harm to persons.

Provision: 4.7.5.1.(1)

Objective

OS1

Attributions

[F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing the fire, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To supersede the general provisions stated in Article 2.1.5.1. regarding the number and rating of portable extinguishers.

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing the fire, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent 2. To supersede the general provisions stated in Article 2.1.5.1. regarding the number and rating of portable extinguishers.

Intent Statements: NFC 2010

Provision: 4.7.6.1.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6.

Provision: 4.8.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 4.8.

Provision: 4.8.2.1.(1)

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire or explosion involving the pier or wharf operations will lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire or explosion involving the pier or wharf operations will lead to harm to persons in vehicles or rail cars using nearby bridges or tunnels.

Provision: 4.8.2.1.(2)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire or explosion involving the pier or wharf operations will lead to harm to persons in vehicles or rail cars using nearby bridges or tunnels.

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire or explosion involving the pier or wharf operations will lead to damage to adjacent buildings or facilities.

Provision: 4.8.2.2.(1)

Objective

OH5

Attributions

[F20, F04, F80-OH5]

Intent(s)

Intent 1. To limit the probability that the substructure or deck will fail under normal or fire conditions, which could lead to failure of flammable and combustible liquid installations, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

[F20, F04, F80-OS1.1]

Intent(s)

Intent 1. To limit the probability that the substructure or deck will fail under normal or fire conditions, which could lead to failure of flammable and combustible liquid installations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F20, F04, F80-OP1.1]

Intent(s)

Intent 1. To limit the probability that the substructure or deck will fail under normal or fire conditions, which could lead to failure of flammable and combustible liquid installations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.8.3.1.(1)

Objective

OS1

Attributions

[F04, F20-OS1.1] Applies to portion of Code text: "Except as permitted in Sentences (2) and (3), *storage tanks* shall be installed on shore ..."

Intent(s)

Intent 1. To limit the probability that the substructure or deck will fail under normal or fire conditions, which could lead to failure of the storage tank or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F04, F20-OH5] Applies to portion of Code text: "Except as permitted in Sentences (2) and (3), *storage tanks* shall be installed on shore ..."

Intent(s)

Intent 1. To limit the probability that the substructure or deck will fail under normal or fire conditions, which could lead to failure of the storage tank or associated piping, which could lead to the escape of liquid, which could lead to harm to the public.

Intent(s)

Intent 1. To direct Code users to Subsections 4.3.2. to 4.3.7.

Provision: 4.8.3.1.(2)

Objective

OS1

Attributions

[F04, F43, F20-OS1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.3.1.(1) and permit storage tanks to be located in buildings on piers and wharves, if certain conditions are met [the piers or wharves are of solid-fill or noncombustible construction, and the tank installation conforms to Subsections 4.3.13. to 4.3.15.].

This is to limit the probability that:

- the substructure or deck will fail under normal or fire conditions, which could lead to failure of the storage tank or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- there will be an unwanted release of liquid and vapours from the storage tanks, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F04, F20, F43-OH5]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.3.1.(1) and permit storage tanks to be located in buildings on piers and wharves, if certain conditions are met [the piers or wharves are of solid-fill or noncombustible construction, and the tank installation conforms to Subsections 4.3.13. to 4.3.15.].

This is to limit the probability that:

- the substructure or deck will fail under normal or fire conditions, which could lead to failure of the storage tank or associated piping, which could lead to the escape of liquid, which could lead to harm to the public, and
- there will be an unwanted release of liquid from the storage tanks, which could lead to harm to the public.

Provision: 4.8.3.1.(3)

Objective

OS1

Attributions

[F20, F43, F04-OS1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.3.1.(1) and permit storage tanks to be buried in piers and wharves, if certain conditions are met [the piers or wharves are of solid-fill and the tank installation conforms to Subsections 4.3.8. to 4.3.12.

This is to limit the probability that:

- the substructure or deck will fail under normal or fire conditions, which could lead to failure of the storage tank or associated piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- there will be an unwanted release of liquid and vapours from the storage tanks, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F43, F04-OH5]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.3.1.(1) and permit storage tanks to be buried in piers and wharves, if certain conditions are met [the piers or wharves are of solid-fill and the tank installation conforms to Subsections 4.3.8. to 4.3.12.

This is to limit the probability that:

- the substructure or deck will fail under normal or fire conditions, which could lead to failure of the storage tank or associated piping, which could lead to the escape of liquid, which could lead to harm to the public, and
- there will be an unwanted release of liquid from the storage tanks, which could lead to harm to the public.

Provision: 4.8.4.1.(1)

Intent(s)

Intent 1. To expand the application of Section 4.5. [specifically those provisions in Section 4.5. that relate to the “method of installation and materials”].

Provision: 4.8.4.2.(1)

Objective

OS1

Attributions

[F20, F22-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that piping and connected equipment will be subject to excessive vibration or strain, which could lead to the development of cracks or breakage, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F22-OH5]

Intent(s)

Intent 1. To limit the probability that piping and connected equipment will be subject to excessive vibration or strain, which could lead to the development of cracks or breakage, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F20, F22-OP1.1]

Intent(s)

Intent 1. To limit the probability that piping and connected equipment will be subject to excessive vibration or strain, which could lead to the development of cracks or breakage, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.8.4.2.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that piping supports will contribute to a fire, which could lead to failure of the piping from fire exposure, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that piping supports will contribute to a fire, which could lead to failure of the piping from fire exposure, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F02-OH5]

Intent(s)

Intent 1. To limit the probability that piping supports will contribute to a fire, which could lead to failure of the piping from fire exposure, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.8.4.2.(3)

Objective

OS1

Attributions

[F04-OS1.2]

Intent(s)

Intent 1. To limit the probability that piping supports will prematurely fail in a fire situation, which could lead to the escape of liquid, which could lead to the ignition of vapour and spread of fire, which could lead to harm to persons.

Objective

OH5

Attributions

[F04-OH5]

Intent(s)

Intent 1. To limit the probability that piping supports will prematurely fail in a fire, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F04-OP1.2]

Intent(s)

Intent 1. To limit the probability that piping supports will prematurely fail in a fire, which could lead to the escape of liquid, which could lead to the ignition of vapour, which could lead to the spread of fire, which could lead to damage to the building or facility.

Provision: 4.8.4.3.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that the piping will be physically damaged, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that the piping will be physically damaged, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that the piping will be physically damaged, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.8.4.4.(1)

Objective

OS1

Attributions

[F21-OS1.1]

Intent(s)

Intent 1. To limit the probability that movement of the pier or wharf will lead to excessive strain on the piping [including joints and connections], which could lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F21-OP1.1]

Intent(s)

Intent 1. To limit the probability that movement of the pier or wharf will lead to excessive strain on the piping [including joints and connections], which could lead to failure of the piping, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F21-OH5]

Intent(s)

Intent 1. To limit the probability that movement of the pier or wharf will lead to excessive strain on the piping [including joints and connections], which could lead to failure of the piping, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.8.4.5.(1)

Objective

OS1

Attributions

[F12, F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a fire involving the liquid], which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a liquid spill incident], which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F12, F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a fire involving the liquid], which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a liquid spill incident], which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F12, F44-OH5]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a liquid spill incident], which could lead to the spread of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.8.4.6.(1)

Objective

OS1

Attributions

[F12-OS1.2, OS1.1] [F82-OS1.1]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a fire involving the liquid], which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a liquid spill incident], which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To limit the probability that inadequate inspection and maintenance will lead to the unwanted escape of liquid, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.1, OP1.2] [F82-OP1.1]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a fire involving the liquid], which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a liquid spill incident], which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 3. To limit the probability that inadequate inspection and maintenance will lead to the unwanted escape of liquid, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F12, F82-OH5]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a liquid spill incident], which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that inadequate inspection and maintenance will lead to the unwanted escape of liquid, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.8.4.6.(2)

Objective

OS1

Attributions

[F12-OS1.1, OS1.2] [F82-OS1.1]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a fire involving the liquid], which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a liquid spill incident], which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To limit the probability that inadequate inspection and maintenance will lead to the unwanted escape of liquid, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.1, OP1.2] [F82-OP1.1]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a fire involving the liquid], which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a liquid spill incident], which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 3. To limit the probability that inadequate inspection and maintenance will lead to the unwanted escape of liquid, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F12, F82-OH5]

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in an emergency situation [a liquid spill incident], which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that inadequate inspection and maintenance will lead to the unwanted escape of liquid, which could lead to the spread of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.8.4.7.(1)

Objective

OS1

Attributions

[F81-OS1.1] [F12-OS1.2, OS1.1]

Intent(s)

Intent 1. To limit the probability that incompatible liquids will be mixed during normal operations, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of delays or inefficiencies in carrying out emergency response operations in a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to harm to persons.

Intent 3. To limit the probability of delays or inefficiencies in carrying out emergency response operations in a liquid spill incident, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.1] [F12-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that incompatible liquids will be mixed during normal operations, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays or inefficiencies in carrying out emergency response operations in a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent 3. To limit the probability of delays or inefficiencies in carrying out emergency response operations in a liquid spill incident, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F12-OH5]

Intent(s)

Intent 1. To limit the probability of delays or inefficiencies in carrying out emergency response operations in a liquid spill incident, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.8.4.8.(1)

Intent(s)

Intent 1. To expand the application of Section 4.4.

Provision: 4.8.4.8.(2)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that leaks in underground piping systems will not be identified and corrected, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To expand the application of Article 4.4.1.1.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that leaks in underground piping systems will not be identified and corrected, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To expand the application of Article 4.4.1.1.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that leaks in underground piping systems will not be identified and corrected, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To expand the application of Article 4.4.1.1.

Provision: 4.8.5.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static electric charges will build up, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Intent 2. To limit the probability that a distant lightning strike will travel through the rails, which could lead to a source of ignition, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 4.8.5.1.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that stray currents originating from shoreside installations will travel through the rails, which could lead to buildup of static electric charges, which could lead to the ignition of nearby vapour, which could lead to harm to persons.

Provision: 4.8.6.1.(1)

Objective

OS1

Attributions

[F12, F02-OS1.2] Applies to the requirement for portable extinguishers with a rated capacity.

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed, or ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To override general provisions for the location and rating of portable extinguishers in Article 2.1.5.1. and Sentence 6.2.1.1.(1).

Objective

OP1

Attributions

[F12, F02-OP1.2] Applies to the requirement for portable extinguishers with a rated capacity.

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed, or ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent 2. To override general provisions for the location and rating of portable extinguishers in Article 2.1.5.1. and Sentence 6.2.1.1.(1).

Intent(s)

Intent 1. To direct Code users to Article 2.1.5.1. and Sentence 6.2.1.1.(1).

Provision: 4.8.6.1.(2)

Objective

OS1

Attributions

[F12-OS1.2] Applies to the placement and accessibility of portable extinguishers.

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OS1

Attributions

[F34-OS1.2] Applies to the placement of portable extinguishers so they are not accessible to the public.

Intent(s)

Intent 1. To limit the probability that portable extinguishers will be stolen or tampered with, which could lead to fire suppression operations [using portable extinguishers] being delayed, or ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2] Applies to the placement and accessibility of portable extinguishers.

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed, which could lead to the spread of fire, which could lead to damage to the building or facility.

Objective

OP1

Attributions

[F34-OP1.2] Applies to the placement of portable extinguishers so they are not accessible to the public.

Intent(s)

Intent 1. To limit the probability that portable extinguishers will be stolen or tampered with, which could lead to fire suppression operations [using portable extinguishers] being delayed, or ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to damage to the building or facility.

Provision: 4.8.6.1.(3)

Objective

OS1

Attributions

[F12, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed, or ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F12, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed, or ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to damage to the building or facility.

Provision: 4.8.6.1.(4)

Intent(s)

Intent 1. To clarify that portable extinguishers on board the vessels shall not be counted in determining the extinguishers required in Sentence 4.8.6.1.(3).

Provision: 4.8.6.2.(1)

Objective

OS1

Attributions

[F12, F13-OS1.2]

Intent(s)

Intent 1. To limit the probability that delays will occur in notifying emergency responders of a fire, which could lead to delays in fire suppression operations, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F12, F13-OP1.2]

Intent(s)

Intent 1. To limit the probability that delays will occur in notifying emergency responders of a fire, which could lead to delays in fire suppression operations, which could lead to the spread of fire, which could lead to damage to the building or facility.

Provision: 4.8.7.1.(1)

Objective

OS1

Attributions

[F01, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that other operations will create a fire or mechanical damage hazard to the liquid bulk transfer operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that other operations will create a fire or mechanical damage hazard to the liquid bulk transfer operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F01, F81-OH5]

Intent(s)

Intent 1. To limit the probability that other operations will create a fire or mechanical damage hazard to the liquid bulk transfer operations, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.8.7.1.(2)

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.7.1.(1) in order to permit bulk transfer operations on general purpose piers and wharves if certain measures are taken [guards or fences are installed around valves or pumping equipment to prevent entry of unauthorized personnel].

This is to limit the probability that unauthorized persons will gain access to the valves and pumping equipment, which could lead to the unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F34-OP1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.7.1.(1) in order to permit bulk transfer operations on general purpose piers and wharves if certain measures are taken [guards or fences are installed around valves or pumping equipment to prevent entry of unauthorized personnel].

Intent Statements: NFC 2010

This is to limit the probability that unauthorized persons will gain access to the valves and pumping equipment, which could lead to the unwanted escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F34-OH5]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.7.1.(1) in order to permit bulk transfer operations on general purpose piers and wharves if certain measures are taken [guards or fences are installed around valves or pumping equipment to prevent entry of unauthorized personnel].

This is to limit the probability that unauthorized persons will gain access to the valves and pumping equipment, which could lead to the unwanted escape of liquid, which could lead to harm to the public.

Provision: 4.8.7.2.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.6.

Provision: 4.8.7.2.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid, which could lead to harm to the public.

Provision: 4.8.7.3.(1)

Objective

OS1

Attributions

[F22, F43-OS1.1] Applies to portion of Code text: "Except as provided in Sentence (2), hose connections on piping shall be of the bolted flange type ..."

Intent(s)

Intent 1. To limit the probability that hose connections will loosen from normal operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F22, F43-OP1.1] Applies to portion of Code text: "Except as provided in Sentence (2), hose connections on piping shall be of the bolted flange type ..."

Intent(s)

Intent 1. To limit the probability that hose connections will loosen from normal operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OP1

Attributions

[F44-OP1.1, OP1.2] Applies to the requirement for shut-off valves.

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent 2. To limit the probability of delays in shutting off the flow of liquid in a liquid spill situation, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F44-OH5] Applies to the requirement for shut-off valves.

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in a liquid spill situation, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OH5

Attributions

[F22, F43-OH5] Applies to portion of Code text: "Except as provided in Sentence (2), hose connections on piping shall be of the bolted flange type ..."

Intent(s)

Intent 1. To limit the probability that hose connections will loosen from normal operations, which could lead to the escape of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Objective

OS1

Attributions

[F44-OS1.1, OS1.2] Applies to the requirement for shut-off valves.

Intent(s)

Intent 1. To limit the probability of delays in shutting off the flow of liquid in a fire, which could lead to the escape of liquid not being minimized, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To limit the probability of delays in shutting off the flow of liquid in a liquid spill situation, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.8.7.3.(2)

Objective

OS1

Attributions

[F22, F43-OS1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.7.3.(1) for bolted flange type connections and permit cam-locking connections up to a certain size.

This [use of cam-locking connections] is to limit the probability that hose connections will loosen from normal operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F22, F43-OP1.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.7.3.(1) for bolted flange type connections and permit cam-locking connections up to a certain size.

This [use of cam-locking connections] is to limit the probability that hose connections will loosen from normal operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F22, F43-OH5]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.7.3.(1) for bolted flange type connections and permit cam-locking connections up to a certain size.

This [use of cam-locking connections] is to limit the probability that hose connections will loosen from normal operations, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.8.7.3.(3)

Objective

OH5

Attributions

[F81-OH5]

Intent(s)

Intent 1. To limit the probability that marine vessels will impact and physically damage hose connections, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that marine vessels will impact and physically damage hose connections, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that marine vessels will impact and physically damage hose connections, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.8.8.1.(1)

Objective

OS1

Attributions

[F81, F20, F22-OS1.1]

Intent(s)

Intent 1. To limit the probability that working pressure, incompatibility of materials, movement, impact or vibrations will lead to the failure of the piping or hose, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F81, F20, F22-OP1.1]

Intent(s)

Intent 1. To limit the probability that working pressure, incompatibility of materials, movement, impact or vibrations will lead to the failure of the piping or hose, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F81, F20, F22-OH5]

Intent(s)

Intent 1. To limit the probability that working pressure, incompatibility of materials, movement, impact or vibrations will lead to the failure of the piping or hose, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.8.8.2.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the piping or hose will fail from normal use and operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that the piping or hose will fail from normal use and operations, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that the piping or hose will fail from normal use and operations, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.8.8.3.(1)

Objective

OS1

Attributions

[F20, F22-OS1.1]

Intent(s)

Intent 1. To limit the probability that cargo hose and connected equipment will be subjected to excessive vibration or strain, which could lead to the development of cracks or breakage, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F20, F22-OP1.1]

Intent(s)

Intent 1. To limit the probability that the cargo hose and connected equipment will be subjected to excessive vibration or strain, which could lead to the development of cracks or breakage, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F20, F22-OH5]

Intent(s)

Intent 1. To limit the probability that the cargo hose and connected equipment will be subjected to excessive vibration or strain, which could lead to the development of cracks or breakage, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.8.9.1.(1)

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that the cargo hose and connected equipment will be subjected to excessive pressures, which could lead to the failure of the hose, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F20, F81-OP1.1]

Intent(s)

Intent 1. To limit the probability that the cargo hose and connected equipment will be subjected to excessive pressures, which could lead to the failure of the hose, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F20, F81-OH5]

Intent(s)

Intent 1. To limit the probability that the cargo hose and connected equipment will be subjected to excessive pressures, which could lead to the failure of the hose, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.8.9.2.(1)

Objective

OS1

Attributions

4.8.9.2.(1)(b) [F01, F03-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the cargo pump will spread to adjacent buildings or structures, which could lead to harm to persons in the adjacent building or facility.

Intent 2. To limit the probability that leakage from the pump operations will spread liquid to an adjacent property, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons in the adjacent building or facility.

Intent 3. To limit the probability that an ignition source from an adjacent property will ignite vapour from the pump, which could lead to harm to persons in the building.

Objective

OP1

Attributions

4.8.9.2.(1)(a) [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the cargo pump will spread to other parts of the pier or wharf, which could lead to damage to the building or facility.

Objective

OS1

Attributions

4.8.9.2.(1)(a) [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the cargo pump will spread to other parts of the pier or wharf, which could lead to harm to persons.

Objective

OP3

Attributions

4.8.9.2.(1)(b) [F03, F01-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the cargo pump will spread to adjacent buildings or structures, which could lead to damage to adjacent buildings or facilities.

Intent 2. To limit the probability that leakage from the pump operations will spread liquid to adjacent buildings or facilities, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to adjacent buildings or facilities.

Intent 3. To limit the probability that an ignition source from adjacent buildings or facilities will ignite vapour from the pump, which could lead to a fire or explosion, which could lead to damage to adjacent buildings or facilities.

Provision: 4.8.9.2.(2)

Objective

OS1

Attributions

[F44, F02, F03, F01-OS1.1, OS1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.9.2.(1) and permit the installation of cargo pumps on piers or wharves of combustible construction if certain measures are taken [pumps are located in pump houses conforming to Subsection 4.8.10., and located not less than 3 m from other buildings].

This is to limit the probability that:

- liquid spillage or leakage will not be contained, which could lead to the spread of liquid outside of the pump house, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons,
- a fire involving the pump and immediate area will spread to involve the pump house, which could lead to the spread of fire to other parts of the pier or wharf, which could lead to harm to persons,
- a fire involving the pump house will spread to adjacent buildings or structures, which could lead to harm to persons in the adjacent building or facility,
- leakage or spillage from the pump operations will spread liquid to an adjacent property, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons in the adjacent building or facility, and

Intent Statements: NFC 2010

- an ignition source in an adjacent property will ignite vapour from the pump, which could lead to harm to persons in the building.

Objective

OP3

Attributions

[F44, F02, F03-OP3.1]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.8.9.2.(1) and permit the installation of cargo pumps on piers or wharves of combustible construction if certain measures are taken [pumps are located in pump houses conforming to Subsection 4.8.10., and located not less than 3 m from other buildings].

This is to limit the probability that:

- liquid spillage or leakage will not be contained, which could lead to the spread of liquid outside of the pump house and to adjacent buildings and facilities, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to adjacent buildings and facilities,
- a fire involving the pump house will spread to adjacent buildings and facilities, which could lead to damage to adjacent buildings and facilities, and
- leakage or spillage from the pump operations will spread liquid to adjacent buildings and facilities, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to adjacent buildings and facilities.

Attributions

4.8.9.2.(2)(a)

Intent(s)

Intent 1. To direct Code users to Subsection 4.8.10.

Provision: 4.8.10.1.(1)

Objective

OS1

Attributions

[F02-OS1.2] Applies to portion of Code text: "Pump houses shall be of *noncombustible construction* ..."

Intent(s)

Intent 1. To limit the probability that a fire in the pump house will spread to other parts of the pier or wharf, which could lead to harm to persons.

Objective

OP3

Attributions

[F02-OP3.1] Applies to portion of Code text: "Pump houses shall be of *noncombustible construction* ..."

Intent(s)

Intent 1. To limit the probability that a fire in the pump house will spread to other parts of the pier or wharf, which could lead to damage to adjacent buildings and facilities.

Objective

OP3

Attributions

[F44-OP3.1] Applies to the construction of the floors.

Intent(s)

Intent 1. To limit the probability that liquid spillage or leakage will not be contained, which could lead to the spread of liquid outside of the pump house and to adjacent buildings and facilities, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to adjacent buildings and facilities.

Objective

OH5

Attributions

[F44-OH5] Applies to the construction of the floors.

Intent(s)

Intent 1. To limit the probability that liquid spillage or leakage will not be contained, which could lead to the spread of liquid outside of the pump house, which could lead to harm to the public.

Objective

OS1

Attributions

[F44-OS1.1] Applies to the construction of the floors.

Intent(s)

Intent 1. To limit the probability that liquid spillage or leakage will not be contained, which could lead to the spread of liquid outside of the pump house, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.8.11.1.(1)

Objective

OS1

Attributions

[F44, F12, F43, F01-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the escape of liquid will not be minimized in the event of a fire, which could lead to the spread of fire, which could lead to harm to persons.

Intent 3. To limit the probability that liquid spillage or leakage will occur during transfer operations, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 4. To limit the probability that ignition sources will not be controlled, which could lead to the ignition of vapour, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F44, F43, F12-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that liquid spillage or leakage will occur during transfer operations, which could lead to harm to the public.

Objective

OP1

Attributions

[F44, F12-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the escape of liquid will not be minimized in the event of a fire, which could lead to the spread of fire, which could lead to damage to the building or facility.

Provision: 4.8.11.1.(2)

Objective

OS1

Attributions

[F43, F44, F12-OS1.1]

Intent(s)

Intent 1. To limit the probability of spillage or leakage of liquid during transfer operations, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that, in the event of an unwanted release, the escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To limit the probability that, in the event of spillage of liquid, proper actions will not be taken, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F43, F44, F12-OP1.1]

Intent(s)

Intent 1. To limit the probability of spillage or leakage of liquid during transfer operations, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that, in the event of an unwanted release, the escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 3. To limit the probability that, in the event of spillage of liquid, proper actions will not be taken, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43, F44, F12-OH5]

Intent(s)

Intent 1. To limit the probability of spillage or leakage of liquid during transfer operations, which could lead to harm to the public.

Intent 2. To limit the probability that, in the event of an unwanted release, the escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Intent 3. To limit the probability that, in the event of spillage of liquid, proper actions will not be taken, which could lead to the spread of liquid, which could lead to harm to the public.

Provision: 4.8.11.1.(3)

Objective

OH5

Attributions

4.8.11.1.(3)(c) [F44-OH5] Applies to portion of Code text: "... if leakage occurs, stop the operations."

Intent(s)

Intent 1. To limit the probability that liquid spillage or leakage will not be minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

4.8.11.1.(3)(a) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that ignition sources will not be controlled, which could lead to the ignition of vapour, which could lead to harm to persons.

Objective

OS1

Attributions

4.8.11.1.(3)(b) [F43-OS1.1]

4.8.11.1.(3)(c) [F43-OS1.1] Applies to portion of Code text: "... inspect the hose and connections for leakage ..."

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that liquid spillage or leakage will occur during transfer operations, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

4.8.11.1.(3)(b) [F43-OH5]

4.8.11.1.(3)(c) [F43-OH5] Applies to portion of Code text: "... inspect the hose and connections for leakage ..."

Intent(s)

Intent 1. To limit the probability that liquid spillage or leakage will occur during transfer operations, which could lead to harm to the public.

Objective

OS1

Attributions

4.8.11.1.(3)(c) [F44-OS1.1] Applies to portion of Code text: "... if leakage occurs, stop the operations."

Intent(s)

Intent 1. To limit the probability that liquid spillage or leakage will not be minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.8.11.1.(3)(c) [F44-OP1.1] Applies to portion of Code text: "... if leakage occurs, stop the operations."

Intent(s)

Intent 1. To limit the probability that liquid spillage or leakage will not be minimized, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.8.11.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static charges will build up, which could lead to the ignition of vapour, which could lead to harm to persons.

Intent 2. To waive the requirement for bonding connections when this could lead to an ignition hazard caused by stray currents associated with cathodic corrosion protection systems on the shore, pier or wharf, which could lead to the ignition of vapour, which could lead to harm to persons.

Provision: 4.8.11.2.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static charges will build up, which could lead to the ignition of vapour, which could lead to harm to persons.

Provision: 4.8.11.3.(1)

Objective

OS1

Attributions

[F21-OS1.1]

Intent(s)

Intent 1. To limit the probability that movement of the vessel will lead to the failure of the hose, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F21-OP1.1]

Intent(s)

Intent 1. To limit the probability that movement of the vessel will lead to the failure of the hose, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F21-OH5]

Intent(s)

Intent 1. To limit the probability that movement of the vessel will lead to the failure of the hose, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.8.11.3.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that joints and couplings will leak, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that joints and couplings will leak, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that joints and couplings will leak, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.8.11.3.(3)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that flanged joints will leak, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that flanged joints will leak, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that flanged joints will leak, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.8.11.3.(4)

Objective

OS1

Attributions

[F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid leakage will not be contained, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that liquid leakage will not be contained, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F44-OP1.1]

Intent(s)

Intent 1. To limit the probability that liquid leakage will not be contained, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.8.11.4.(1)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape or spill of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape or spill of liquid, which could lead to harm to the public.

Provision: 4.8.11.4.(2)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape or spill of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape or spill of liquid, which could lead to harm to the public.

Provision: 4.9.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 4.9.

Provision: 4.9.1.1.(2)

Intent(s)

Intent 1. To exempt distilleries [which are required to conform to Section 4.10.] from the application of Section 4.9.

Provision: 4.9.2.1.(1)

Intent(s)

Intent 1. To direct Code users to Sentences 4.9.2.1.(2) to 4.9.2.1.(4).

Provision: 4.9.2.1.(2)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the outdoor processing equipment will lead to harm to persons in outdoor areas or adjacent buildings.

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the outdoor processing equipment will spread to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 4.9.2.1.(3)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving the outdoor processing equipment will lead to harm to persons in outdoor areas or adjacent buildings.

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire involving the outdoor processing equipment will spread to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 4.9.2.1.(4)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentences 4.9.2.1.(2) and 4.9.2.1.(4) and allow unprotected equipment if certain measures are taken [distances are increased].

Intent Statements: NFC 2010

This is to limit the probability that a fire involving the outdoor processing equipment will lead to harm to persons in outdoor areas or adjacent buildings.

Objective

OP3

Attributions

[F03-OP3.1]

Intent(s)

Intent 1. To supersede the requirements of Sentences 4.9.2.1.(2) and 4.9.2.1.(4) and allow unprotected equipment if certain measures are taken [distances are increased].

This is to limit the probability that a fire involving the outdoor processing equipment will spread to adjacent buildings or facilities, which could lead to damage to adjacent buildings or facilities.

Provision: 4.9.3.1.(1)

Objective

OS1

Attributions

[F02-OS1.3]

Intent(s)

Intent 1. To limit the probability that an explosion in the room or building will lead to structural or mechanical damage to the room or the building, which could lead to harm to persons in other parts of the building.

Objective

OP1

Attributions

[F02-OP1.3]

Intent(s)

Intent 1. To limit the probability that an explosion in the room or building will lead to structural or mechanical damage to the room or the building, which could lead to damage to building or facility due to fire or explosion.

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent 1. To limit the probability that deflagration in a room will lead to critical structural and mechanical damage to a building, which could lead to damage to an adjacent building or facility due to fire or explosion.

Provision: 4.9.3.2.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to the fire separations of areas where unstable liquids are handled or where small scale unit chemical processes occur.

Provision: 4.9.3.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will accumulate in low areas such as basements or pits in sufficient quantity to form an ignitable mixture, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.9.3.4.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours will accumulate in sufficient quantity to form an ignitable mixture, which could lead to their ignition from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.9.4.1.(1)

Objective

OS1

Attributions

4.9.4.1.(1)(a) [F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid or vapour, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to their ignition from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OH5

Attributions

4.9.4.1.(1)(b) [F44-OH5]

Intent(s)

Intent 1. To limit the probability that an accidental escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Objective

OP1

Attributions

4.9.4.1.(1)(b) [F44-OP1.1]

Intent(s)

Intent 1. To limit the probability that an accidental escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.9.4.1.(1)(a) [F43-OH5]

Intent(s)

Intent 1. To limit the probability of the escape of liquid, which could lead to harm to the public.

Objective

OS1

Attributions

4.9.4.1.(1)(b) [F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that an accidental escape of liquid will not be minimized, which could lead to the spread of liquid, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.9.4.2.(1)

Objective

OS1

Attributions

[F01-OS1.1] [F02-OS1.3]

Intent(s)

Intent 1. To exempt certain rooms and buildings from the application of Sentence 4.9.3.1.(1), which would otherwise require explosion venting, if certain measures are taken.

This is to limit the probability that an explosion involving the processing equipment will:

- occur, which could lead to harm to nearby persons, and
- lead to damage to the equipment, which could lead to harm to nearby persons.

Objective

OS1

Attributions

4.9.4.2.(1)(a), 4.9.4.2.(1)(b) [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that an explosion involving the processing equipment will lead to damage to the equipment, which could lead to harm to nearby persons.

Objective

OP1

Attributions

4.9.4.2.(1)(a), 4.9.4.2.(1)(b) [F02-OP1.3]

Intent(s)

Intent 1. To limit the probability that an explosion involving the processing equipment will lead to damage to the equipment, which could lead to damage to the building or facility.

Objective

OP1

Attributions

[F02-OP1.3]

Intent(s)

Intent 1. To exempt certain rooms and buildings from the application of Sentence 4.9.3.1.(1), which would otherwise require explosion venting, if certain measures are taken.

This is to limit the probability that an explosion involving the processing equipment will lead to damage to the equipment, which could lead to damage to the building or facility.

Objective

OS1

Attributions

4.9.4.2.(1)(c) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that an explosion involving the processing equipment will occur, which could lead to harm to nearby persons.

Provision: 4.9.4.3.(1)

Objective

OS1

Attributions

[F03, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of the spread of fire to other parts of the building or outdoor area, which could lead to harm to persons.

Intent 2. To direct Code users to Article 2.1.3.5., Sentence 6.4.1.1.(1), Article 2.1.3.6. and Article 6.6.1.1. for automatic fire suppression systems.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F03, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of the spread of fire to other parts of the building or outdoor area, which could lead to damage to the building or facility.

Intent 2. To direct Code users to Article 2.1.3.5., Sentence 6.4.1.1.(1), Article 2.1.3.6. and Article 6.6.1.1. for automatic fire suppression systems.

Provision: 4.9.4.4.(1)

Intent(s)

Intent 1. To direct Code users to Article 4.1.5.5. [which in turn refers to Section 2.8.].

Provision: 4.10.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 4.10.

Provision: 4.10.1.1.(2)

Intent(s)

Intent 1. To exclude flammable liquids or combustible liquids other than distilled beverage alcohols from the application of Section 4.10. [and, as a result, to limit the application of Section 4.10. to distilled beverage alcohols].

Intent 2. To direct Code users to other Sections of Part 4.

Provision: 4.10.1.1.(3)

Intent(s)

Intent 1. To clarify that the specific requirements in Section 4.10. are intended to take precedence over the more general provisions of Part 4 [more specifically Sections 4.1. to 4.5.] in case of conflicts.

Provision: 4.10.2.1.(1)

Intent(s)

Intent 1. To classify buildings or parts of buildings based on use and occupancy in order to determine applicable requirements in the Code.

Provision: 4.10.2.1.(2)

Application

Application 1. *Occupancy* classification.

This applies to *buildings* or parts of *buildings* used for storage of *distilled beverage alcohols* in *closed containers*.

Exception: except as stated in:

- Sentence 4.10.1.1.(2), which applies to the storage, handling and use of *flammable liquids* or *combustible liquids* other than *distilled beverage alcohols* in a *distillery*, and
- Sentences 4.1.1.1.(2) and 4.1.1.1.(3), which apply to unique hazards at *process plants*, in transportation, for oil burning equipment, on farms and isolated construction projects, and the storage of aerosol products.

Intent(s)

Intent 1. To supersede Sentence 4.10.2.1.(1) in order to permit a less stringent occupancy classification for what is expected to be a relatively lower fire hazard.

Provision: 4.10.3.1.(1)

Objective

OH5

Attributions

[F20, F80, F43-OH5]

Intent(s)

Intent 1. To exempt certain storage containers from the application of Sentence 4.3.1.2.(1), which would otherwise require the containers to conform to certain standards, if certain conditions are met [the containers are designed, fabricated and tested for the anticipated maximum working pressure, operating temperature, internal corrosion conditions and structural stresses to which they could be subjected], on the basis that these conditions provide an equivalent level of safety.

This is to limit the probability that working pressure, operating temperature, internal corrosion conditions or structural stresses will lead to failure of the storage containers, which could lead to the escape of liquid from the containers, which could lead to harm to the public.

Objective

OS1

Attributions

[F20, F80, F43, F01-OS1.1]

Intent(s)

Intent 1. To exempt certain storage containers from the application of Sentence 4.3.1.2.(1), which would otherwise require the containers to conform to certain standards, if certain conditions are met [the containers are designed, fabricated and tested for the anticipated maximum working pressure, operating temperature, internal corrosion conditions and structural stresses to which they could be subjected], on the basis that these conditions provide an equivalent level of safety.

This is to limit the probability that working pressure, operating temperature, internal corrosion conditions or structural stresses will lead to failure of the storage containers, which could lead to:

- the escape of liquid from the containers, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- the release of vapour from the containers, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 4.10.3.2.(1)

Objective

OS1

Attributions

[F02, F04-OS1.2] Applies to the use of timber supports.

Intent(s)

Intent 1. To exempt timber supports from the application of Sentence 4.3.3.1.(1), which would otherwise require the supports to be made of concrete, masonry or steel, on the basis that such supports provide an equivalent level of safety.

This is to limit the probability that:

- the supports will contribute to a fire under the tank, which could lead to failure of the tank from exposure to the fire, which could lead to fire growth and spread of fire, which could lead to harm to persons, and
- a fire will lead to the premature failure [collapse] of the supports, which could lead to the collapse of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent(s)

Intent 1. To direct Code users to Subsection 4.3.3.

Provision: 4.10.3.2.(2)

Objective

OS1

Attributions

[F02-OS1.2] Applies to supports having less than a 2 h *fire-resistance rating* being protected by an automatic fire suppression system.

Intent(s)

Intent 1. To exempt supports having less than a 2 h fire-resistance rating from the application of Sentence 4.3.3.1.(3), which would otherwise require a minimum 2 h fire-resistance rating, if certain measures are taken [the supports are protected by an automatic fire suppression system].

This is to limit the probability that a fire will not be suppressed or controlled, which could lead to the spread of the fire, which could lead to an exposure of the supports to the fire, which could lead to the premature failure [collapse] of the supports, which could lead to the collapse of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent(s)

Intent 1. To direct Code users to Article 2.1.3.5., Sentence 6.4.1.1.(1), Article 2.1.3.6. and Article 6.6.1.1.

Provision: 4.10.3.2.(3)

Objective

OS1

Attributions

[F02-OS1.2] Applies to the protection of the area underneath any *storage tank* that is greater than 1.2 m in diameter.

Intent(s)

Intent 1. To limit the probability that a fire will not be suppressed or controlled, which could lead to the spread of the fire, which could lead to an exposure of the supports to the fire, which could lead to the premature failure [collapse] of the supports, which could lead to the collapse of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent(s)

Intent 1. To direct Code users to Article 2.1.3.5., Sentence 6.4.1.1.(1), Article 2.1.3.6. and Article 6.6.1.1.

Provision: 4.10.3.3.(1)

Objective

OS1

Attributions

[F81, F20, F04, F01-OS1.1]

Intent(s)

Intent 1. To exempt vents from the application of Subsections 4.3.4. and 4.3.5. which would otherwise impose certain vent requirements, if certain measures are taken [vents conform with good engineering practice].

This is to limit the probability that:

- excessive internal tank vacuum or pressure will develop in normal or fire conditions, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons, and
- vapour will accumulate inside or outside the building, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F81, F20, F04-OH5]

Intent(s)

Intent 1. To exempt vents from the application of Subsections 4.3.4. and 4.3.5. which would otherwise impose certain vent requirements, if certain measures are taken [vents conform with good engineering practice].

This is to limit the probability that excessive internal tank vacuum or pressure will develop in normal or fire conditions, which could lead to the failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 4.10.4.1.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire will not be suppressed or controlled, which could lead to the spread of the fire to other parts of the building, which could lead to harm to persons.

Intent 2. To direct Code users to Article 2.1.3.6., which in turn references the National Building Code of Canada [NBC]. This, in effect, expands the application of the NBC [to existing buildings, where more than 25 000 L of distilled beverage alcohol are stored in storage tanks, drums or barrels inside such buildings].

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire will not be suppressed or controlled, which could lead to the spread of the fire to other parts of the building, which could lead to damage to the building.

Intent 2. To direct Code users to Article 2.1.3.6., which in turn references the National Building Code of Canada [NBC]. This, in effect, expands the application of the NBC [to existing buildings, where more than 25 000 L of distilled beverage alcohol are stored in storage tanks, drums or barrels inside such buildings].

Provision: 4.10.4.2.(1)

Intent(s)

Intent 1. To direct Code users to Part 3.

Provision: 4.10.5.1.(1)

Objective

OS1

Attributions

[F20, F80-OS1.1]

Intent(s)

Intent 1. To limit the probability that working pressures, operating temperatures, internal corrosion or structural stresses will lead to the failure of the piping or pumping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F20, F80-OH5]

Intent(s)

Intent 1. To limit the probability that working pressures, operating temperatures, internal corrosion or structural stresses will lead to the failure of the piping or pumping system, which could lead to the escape of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F20, F80-OP1.1]

Intent(s)

Intent 1. To limit the probability that working pressures, operating temperatures, internal corrosion or structural stresses will lead to the failure of the piping or pumping system, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Provision: 4.10.6.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To exempt distilleries from the application of Subsection 4.1.7. if certain measures are taken [areas where alcohol vapours are released are provided with natural or mechanical ventilation].

These measures are to limit the probability that vapours will accumulate in sufficient quantity to form an ignitable mixture, which could lead to their ignition from a nearby ignition source, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.10.7.1.(1)

Objective

OS1

Attributions

[F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that escaped liquids will create a fire or lead to the spread of a fire outside the spill area, which could lead to harm to persons, including emergency responders, in other parts of the building, adjacent buildings or adjacent outdoor areas.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that escaped liquids will lead to harm to the public.

Provision: 4.10.8.1.(1)

Objective

OS1

Attributions

[F12, F02-OS1.2]

Intent(s)

Intent 1. To exempt portable extinguishers from the application of [and to supersede] Sentence 4.10.8.1.(1), if certain measures are taken [hose stations installed at each exit and spaced so that the travel distance to each station is not greater than 25 m].

This is to limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F12, F02-OP1.2]

Intent(s)

Intent 1. To exempt portable extinguishers from the application of [and to supersede] Sentence 4.10.8.1.(1), if certain measures are taken [hose stations installed at each exit and spaced so that the travel distance to each station is not greater than 25 m].

This is to limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to damage to the building or facility.

Provision: 4.10.8.1.(2)

Objective

OS1

Attributions

[F12, F02-OS1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.10.8.1.(1), which would otherwise require portable extinguishers, and permit hose stations, if certain measures are taken [with respect to the location and spacing of the hose stations].

This is to limit the probability that fire suppression operations using hose stations will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Intent 2. To expand the application of Article 2.1.5.1.

Objective

OP1

Attributions

[F12, F02-OP1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.10.8.1.(1), which would otherwise require portable extinguishers, and permit hose stations, if certain measures are taken [with respect to the location and spacing of the hose stations].

This is to limit the probability that fire suppression operations using hose stations will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Intent 2. To expand the application of Article 2.1.5.1.

Provision: 4.10.8.1.(3)

Objective

OS1

Attributions

[F12, F02-OS1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.10.8.1.(1), if certain measures are taken [hose stations installed at each exit and spaced so that the travel distance to each station is not greater than 25 m].

This is to limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F12, F02-OP1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.10.8.1.(1), if certain measures are taken [hose stations installed at each exit and spaced so that the travel distance to each station is not greater than 25 m].

This is to limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 4.10.8.2.(1)

Objective

OS1

Attributions

[F12, F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using standpipe and hose systems will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Intent 2. To direct Code users to Article 2.1.3.1. which, in turn, references the National Building Code of Canada.

Objective

OP1

Attributions

[F12, F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using standpipe and hose systems will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Intent 2. To direct Code users to Article 2.1.3.1. which, in turn, references the National Building Code of Canada.

Provision: 4.10.8.2.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.10.8.2.(1), which would otherwise require standpipe and hose stations conforming to Article 2.1.3.1. [which references the National Building Code of Canada, which references certain design and installation standards, which would require supply from risers], and permit small hose stations to be supplied from interior sprinkler piping, if certain measures are provided [the building is sprinklered in conformance with Article 2.1.3.6.].

This is to limit the probability that fire suppression operations using small hose stations will be ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To supersede the requirements of Sentence 4.10.8.2.(1), which would otherwise require stand-pipe and hose stations conforming to Article 2.1.3.1. [which references the National Building Code of Canada, which references certain design and installation standards, which would require supply from risers], and permit small hose stations to be supplied from interior sprinkler piping, if certain measures are provided [the building is sprinklered in conformance with Article 2.1.3.6.].

This is to limit the probability that fire suppression operations using small hose stations will be ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to damage to the building.

Provision: 4.11.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 4.11.

Provision: 4.11.2.1.(1)

Objective

OS1

Attributions

[F02, F12-OS1.1]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Intent 2. To supersede the application of Article 2.1.5.1., which would otherwise require portable extinguishers with a lower rating.

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Intent 2. To supersede the application of Article 2.1.5.1., which would otherwise require portable extinguishers with a lower rating.

Provision: 4.11.2.1.(2)

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Provision: 4.11.2.2.(1)

Intent(s)

Intent 1. To direct Code users to Section 5.2.

Provision: 4.11.2.3.(1)

Objective

OS1

Attributions

4.11.2.3.(1)(a) [F01, F44-OS1.1]

4.11.2.3.(1)(a) [F02, F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that:

- vapour from a tank vehicle will accumulate in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons,
- a fire involving a tank vehicle will not be suppressed or controlled, which could lead to the spread of fire to the building, which could lead to harm to persons,
- a spill of liquid from a tank vehicle will not be contained or controlled, which could lead to the spread of liquid outside of the spill area, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons, and
- ignition sources near a tank vehicle will not be minimized, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

4.11.2.3.(1)(a) [F01, F44-OP1.1]

4.11.2.3.(1)(a) [F02, F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that:

- vapour from a tank vehicle will accumulate in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to damage to the building or facility,
- a fire involving a tank vehicle will not be suppressed or controlled, which could lead to the spread of fire to the building, which could lead to damage to the building or facility,
- a spill of liquid from a tank vehicle will not be contained or controlled, which could lead to the spread of liquid outside of the spill area, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to damage to the building or facility, and
- ignition sources near a tank vehicle will not be minimized, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

4.11.2.3.(1)(a) [F44-OH5]

Intent(s)

Intent 1. To limit the probability that a spill of liquid from a tank vehicle will not be contained or controlled, which could lead to the spread of liquid outside of the spill area, which could lead to harm to the public.

Objective

OS1

Attributions

4.11.2.3.(1)(b) [F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that an increase in the ambient temperature will lead to the thermal expansion of liquid, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that an increase in the ambient temperature will lead to the thermal expansion of liquid, which could lead to the release of vapour, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.11.2.3.(1)(c) [F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of the escape of liquid from a tank vehicle, which could lead to the accumulation and subsequent ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 4.11.2.4.(1)

Objective

OS1

Attributions

[F81, F34-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a malfunction of the tank vehicle or inappropriate actions from unauthorized persons will lead to a fire or explosion involving the tank vehicle, which could lead to harm to nearby persons.

Intent 2. To limit the probability that a fire or explosion involving the tank vehicle will spread to a nearby building, which could lead to harm to persons in the adjacent building.

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent 1. To limit the probability that a fire or explosion involving the tank vehicle will spread to an adjacent building, which could lead to damage to adjacent buildings or facilities.

Provision: 4.11.2.4.(2)

Objective

OS1

Attributions

[F81-OS1.1] [F03-OS1.2]

Intent(s)

Intent 1. To supersede the time limitation of Sentence 4.11.2.4.(1) in order to permit a tank vehicle to be left unattended for more than 1 hour if certain conditions are met.

This is to limit the probability that:

- the tank vehicle will become involved in a vehicular accident or other impacts, which could lead to damage to the tank vehicle, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons nearby, and
- a fire or explosion involving the tank vehicle will spread to a nearby building, which could lead to harm to persons in the adjacent building.

Objective

OP3

Attributions

[F81, F03-OP3.1]

Intent(s)

Intent 1. To supersede the time limitation of Sentence 4.11.2.4.(1) in order to permit a tank vehicle to be left unattended for more than 1 hour if certain conditions are met.

This is to limit the probability that:

- the tank vehicle will become involved in a vehicular accident or other impacts, which could lead to damage to the tank vehicle, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to adjacent buildings or facilities, and
- a fire or explosion involving the tank vehicle will spread to an adjacent building, which could lead to damage to adjacent buildings or facilities.

Provision: 4.11.3.1.(1)

Intent(s)

Intent 1. To expand the application of Subsection 4.7.4., which would otherwise apply only to bulk plants, to the loading and unloading of tank vehicles.

Provision: 4.11.3.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that nearby ignition sources will ignite vapour, which could lead to harm to persons.

Intent 2. To expand the application of Articles 4.6.3.3. and 4.6.8.7.

Objective

OS1

Attributions

[F20, F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that flammable liquid or combustible liquid residue will react with the compressed air, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 4.11.3.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static electric charges will build up, which could lead to the ignition of vapour, which could lead to harm to persons.

Intent 2. To expand the application of Articles 4.1.8.2. and 4.7.4.5.

Intent Statements: NFC 2010

Provision: 4.11.3.4.(1)

Objective

OS1

Attributions

[F44-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that the escape of liquid will not be minimized in the event of a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Objective

OH5

Attributions

[F44-OH5]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to harm to the public.

Objective

OP1

Attributions

[F44-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that the escape of liquid will not be minimized in the event of an unwanted release, which could lead to the spread of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 2. To limit the probability that the escape of liquid will not be minimized in the event of a fire, which could lead to the spread of the fire, which could lead to damage to the building or facility.

Provision: 4.11.3.5.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that Class II or IIIA liquids will become contaminated with [more volatile] Class I liquids, which could lead to the accumulation of vapour in sufficient quantity to form an ignitable mixture, which could lead to the ignition of the vapour from a nearby ignition source, which could lead to harm to persons.

Provision: 4.11.3.6.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapour will be ignited by the engine, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that the vapour from Class I liquid will be drawn into the engine's intake system, which could lead to running away, over-revving or overheating of the engine, which could lead to a fire, which could lead to harm to persons.

Provision: 4.11.3.7.(1)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that the tank will be overfilled, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that the tank will be overfilled, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.11.3.7.(2)

Objective

OS1

Attributions

[F81, F20, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that excessive pressure will build up in the receiving tank, which could lead to failure of the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that excessive back pressure will build up in the receiving tank, which could lead to overflow from the tank, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OH5

Attributions

[F81, F20, F43-OH5]

Intent(s)

Intent 1. To limit the probability that excessive pressure will build up in the receiving tank, which could lead to failure of the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Intent 2. To limit the probability that excessive back pressure will build up in the receiving tank, which could lead to overflow from the tank, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.11.3.7.(3)

Objective

OS1

Attributions

[F81, F01, F02-OS1.1]

Intent(s)

Intent 1. To limit the probability that:

- the tank vehicle will become involved in a vehicular accident or other impacts, which could lead to damage to the tank vehicle, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons nearby,
- an ignition source located outside of the fuel dispensing station area will ignite vapour from the tank vehicle, which could lead to a fire or explosion, which could lead to harm to nearby persons, and
- a fire or explosion involving the tank vehicle will lead to harm to nearby persons.

Provision: 4.11.3.8.(1)

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of a fire or explosion hazard [e.g. due to an ignition source located outside a designated fuel-dispensing area or due to proximity to open flames, building openings, or other hazards], which could lead to the ignition of vapour, which could lead to harm to persons.

Intent 2. To limit the probability that liquid will escape and spread outside the filling area, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 3. To limit the probability that a vehicle will be involved in a vehicular accident or that objects will make impact on the vehicle while it is being refuelled, which could lead to damage to the vehicle, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OP1

Attributions

[F43, F01-OP1.1]

Intent(s)

Intent 1. To limit the probability of a fire or explosion hazard [e.g. due to an ignition source located outside a designated fuel-dispensing area or due to proximity to open flames, building openings, or other hazards], which could lead to the ignition of vapour, which could lead to damage to the building or facility.

Intent 2. To limit the probability that liquid will escape and spread outside the filling area, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Intent 3. To limit the probability that a vehicle will be involved in a vehicular accident or that objects will make impact on the vehicle while it is being refuelled, which could lead to damage to the vehicle, which could lead to the escape of liquid, which could lead to the ignition of vapour from a nearby ignition source, which could lead to damage to the building or facility.

Objective

OH5

Attributions

[F43-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will escape and spread outside the filling area, which could lead to harm to the public.

Intent 2. To limit the probability that a vehicle will be involved in a vehicular accident or that objects will make impact on the vehicle while it is being refuelled, which could lead to damage to the vehicle, which could lead to the escape of liquid, which could lead to harm to the public.

Provision: 4.11.3.8.(2)

Objective

OS1

Attributions

4.11.3.8.(2)(a) [F01-OS1.1]

4.11.3.8.(2)(a) [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that an ignition source from an adjacent building or facility will ignite vapours generated by the dispensing operations, which could lead to harm to persons.

Intent 2. To limit the probability that a fire originating in the dispensing area will spread to adjacent buildings, tanks or facilities, which could lead to harm to persons.

Objective

OP3

Attributions

4.11.3.8.(2)(a) [F01, F03-OP3.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that vapour generated by the dispensing operations will accumulate in or near adjacent buildings, tanks or facilities, which could lead to the ignition of the vapour from an ignition source in or near adjacent buildings or facilities, which could lead to a fire or explosion, which could lead to damage to adjacent buildings or facilities.

Intent 2. To limit the probability that a fire originating in the dispensing area will spread to adjacent buildings, tanks or facilities, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

4.11.3.8.(2)(b) [F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire suppression operations using portable extinguishers will be delayed or ineffective in controlling or suppressing a fire, which could lead to the spread of the fire, which could lead to harm to persons.

Attributions

4.11.3.8.(2)(c)

Intent(s)

Intent 1. To direct Code users to Subsection 4.6.5. for requirements regarding delivery hoses and automatically closing hose nozzles.

Objective

OS1

Attributions

4.11.3.8.(2)(d) [F43, F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will escape, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that liquid will spread beyond the spill area, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OS1

Attributions

4.11.3.8.(2)(e) [F44-OS1.1]

Intent(s)

Intent 1. To limit the probability that liquid will spread beyond the spill area, which could lead to the ignition of vapour from a nearby ignition source, which could lead to harm to persons.

Objective

OH5

Attributions

4.11.3.8.(2)(e) [F44-OH5]

Intent(s)

Intent 1. To limit the probability that liquid will spread beyond the spill area, which could lead to harm to the public.

Provision: 5.1.1.1.(1)

Intent(s)

Intent 1. To state the application of Part 5 of the NFC.

Provision: 5.1.1.2.(1)

Objective

OS1

Attributions

[F01, F02-OS1.1]

Intent(s)

Intent 1. To limit the probability that Class 1 dangerous goods will lead to or be involved in a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 5.1.1.3.(1)

Objective

OS1

Attributions

[F01, F02-OS1.1]

Intent(s)

Intent 1. To limit the probability that fireworks will lead to or be involved in a fire or explosion, which could lead to harm to persons, including emergency responders.

Provision: 5.1.2.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that electrical equipment will ignite gases or vapours, combustible dusts or combustible fibres, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.1.2.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that electrical installations will lead to a fire or explosion, which could lead to harm to persons.

Intent(s)

Intent 1. To exempt electrical installations from the application of provincial or territorial legislation or the CEC, if such electrical equipment:

- is not located in areas in which flammable gases or vapours, combustible dusts or combustible fibres are present in quantities sufficient to create a fire or explosion hazard, and
- provides a level of fire safety equivalent to the one provided in provincial or territorial legislation or the CEC.

Provision: 5.1.3.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the accumulation of flammable vapours or gases, combustible dusts or combustible fibres to ignitable concentrations in areas where they can be in the presence of ignition sources will lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To require upgrading of ventilation measures in existing buildings to the standards required for new buildings in the NBC and NFC Part 5.

Provision: 5.1.4.1.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.1.3. of the NFC.

Provision: 5.1.5.1.(1)

Intent(s)

Intent 1. To state the application of Section 2.8., and Sentences 5.1.5.1.(2) and 5.1.5.1.(3).

Provision: 5.1.5.1.(2)

Objective

OS1

Attributions

5.1.5.1.(2)(b) [F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that delays or ineffectiveness in conducting firefighting operations will lead to the spread of fire beyond the point of origin, which could lead to harm to persons, including emergency responders.

Attributions

5.1.5.1.(2)(a)

Intent(s)

Intent 1. To direct Code users to Article 3.2.2.5. of the NFC.

Provision: 5.1.5.1.(3)

Intent(s)

Intent 1. To expand the application of Sentence 3.1.2.6.(2) to areas where radioactive materials are used or handled, as opposed to areas where they are stored as covered in Part 3.

Provision: 5.2.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 5.2.

Provision: 5.2.1.1.(2)

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "... hot works described in Sentence (1) shall conform to CAN/CSA-W117.2, "Safety in Welding, Cutting, and Allied Processes."

Intent(s)

Intent 1. To limit the probability that performing hot works or the use of hot work equipment will ignite combustible materials, vapours, gases, dusts, fibres, etc., which could lead to a fire or explosion, which could lead to harm to persons.

Intent(s)

Intent 1. To clarify that the requirements in Section 5.2. supersede those prescribed in CAN/CSA-W117.2 in case of conflict.

Provision: 5.2.1.2.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that the use of hot work equipment in an unsafe manner will lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 5.2.2.1.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that inadequate maintenance of hot work equipment will lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.2.2.2.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that leakage or defects in hot work equipment while in use will lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.2.2.2.(2)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that the use of faulty or defective hot work equipment will lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.2.2.3.(1)

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that a release of gases from hot work equipment when it is not in use will lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.2.2.3.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that energized hot work equipment will ignite materials when it is not in use, which could lead to harm to persons.

Provision: 5.2.2.4.(1)

Objective

OS1

Attributions

[F81, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that hot work equipment and processes will lead to fire or explosion, which could lead to harm to persons.

Provision: 5.2.2.4.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that a chemical reaction between unalloyed copper and acetylene will lead to the formation of metallic acetylides, which can be extremely shock-sensitive and explosive, which could lead to an explosion, which could lead to harm to persons.

Provision: 5.2.2.4.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that contact of an oxidizer [oxygen] with combustible organic materials [oil or grease] will lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.2.2.4.(4)

Intent(s)

Intent 1. To direct Code users to Part 3.

Intent Statements: NFC 2010

Provision: 5.2.3.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that hot works will ignite combustible or flammable materials in areas where the hot works are conducted, which could lead to harm to persons.

Provision: 5.2.3.1.(2)

Objective

OS1

Attributions

5.2.3.1.(2)(c) [F01-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that hot works will lead to the initiation and spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

5.2.3.1.(2)(c) [F01-OP1.1] [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that hot works will lead to the initiation and spread of fire, which could lead to damage to the building or facility.

Attributions

5.2.3.1.(2)(b)

Intent(s)

Intent 1. To state the application of Article 5.2.3.3.

Attributions

5.2.3.1.(2)(a)

Intent(s)

Intent 1. To state the application of Article 5.2.3.2.

Provision: 5.2.3.1.(3)

Objective

OS1

Attributions

5.2.3.1.(3)(a) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that hot works will ignite combustible materials in adjacent areas, which could lead to harm to persons.

Attributions

5.2.3.1.(3)(b)

Intent(s)

Intent 1. To expand the application of Sentence 5.2.3.1.(2), and Articles 5.2.3.2. and 5.2.3.3.

Provision: 5.2.3.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that hot works will ignite combustible and flammable material, dust or residue, which could lead to harm to persons.

Provision: 5.2.3.2.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that hot works will ignite combustible and flammable material, dust or residue, which could lead to harm to persons.

Provision: 5.2.3.2.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that a flammable or explosive atmosphere will be ignited, which could lead to harm to persons.

Provision: 5.2.3.3.(1)

Objective

OS1

Attributions

[F01-OS1.1] [F02-OS1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that hot works will lead to the initiation and spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.1] [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that hot works will lead to the initiation and spread of fire, which could lead to damage to the building or facility.

Provision: 5.2.3.4.(1)

Objective

OS1

Attributions

[F01-OS1.1] Applies to the restriction of hot works.

Intent(s)

Intent 1. To exempt certain situations where hazardous conditions have been eliminated from the prohibition to conduct hot works.

Intent 2. To limit the probability that flammable vapours or gases will be ignited, which could lead to harm to persons.

Provision: 5.2.3.4.(2)

Objective

OS3

Attributions

[F81, F20-OS3.1]

Intent(s)

Intent 1. To limit the probability that increased temperature caused by hot works will lead to overpressurization of a container, which could lead to rupture of the container, which could lead to harm to persons.

Provision: 5.2.3.4.(3)

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "Hot work shall not be performed on metal objects that are in contact with combustible materials unless ..."

Intent(s)

Intent 1. To limit the probability that heat from hot works that conducts through metal objects to combustible materials will ignite the combustible materials, which could lead to harm to persons.

Intent(s)

Intent 1. To exempt hot works where safety precautions are taken to prevent ignition of combustible materials by conduction, from the prohibition to perform hot works.

Provision: 5.2.3.5.(1)

Objective

OS1

Attributions

5.2.3.5.(1)(b) [F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that hot works will cause overpressurization of piping or heat gases to their ignition point, which could lead to a fire or explosion, which could lead to harm to persons.

Attributions

5.2.3.5.(1)(a)

Intent(s)

Intent 1. To expand the application of Sentence 5.2.3.4.(1).

Provision: 5.2.3.6.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability of delays or ineffectiveness in locating and using extinguishers in a fire emergency, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Provision: 5.2.3.7.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that hot works will lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.1.1.(1)

Intent(s)

Intent Statements: NFC 2010

Intent 1. To state the application of Section 5.3.

Provision: 5.3.1.2.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that accumulations of combustible dusts will be ignited by hot surfaces in the building or on machinery, or by any ignition source in the presence of a cloud of dust generated by shocks, vibrations, a primary explosion or by dust removal operations, which could lead to a fire or to a primary or secondary explosion, which could lead to harm to persons.

Intent 2. To limit the probability that sparks or heat from cleaning or dust removal equipment will ignite accumulations of combustible dusts or clouds of dust, which could lead to harm to persons.

Intent 3. To limit the probability that the dispersal of combustible dusts into the atmosphere of the building will lead to an ignitable or hazardous accumulation of dust, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.1.2.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that electric cleaning equipment will generate heat or sparks, which could lead to the ignition of combustible dusts, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.1.2.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To remove from the application of Clause 5.3.1.2.(1)(c) and permit the use of compressed air or similar methods if:

- vacuum methods are impracticable, and
- measures are taken to eliminate all possible sources of ignition from the dust removal area where hazardous conditions are created by the displacement of dust.

This is to limit the probability that the dust will be ignited by sources of ignition, which could lead to harm to persons.

Provision: 5.3.1.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that dust accumulations and suspended dusts will reach unsafe concentrations or quantities, which could lead to a fire or explosion in the presence of an ignition source, which could lead to harm to persons.

Provision: 5.3.1.3.(2)

Objective

OS1

Attributions

5.3.1.3.(2)(a) [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials in the dust collection system will increase the combustible loading, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OS1

Attributions

5.3.1.3.(2)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of sparks in the fan assembly, which could lead to the ignition of accumulated dust or clouds of dust, which could lead to harm to persons.

Objective

OP1

Attributions

5.3.1.3.(2)(a) [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials in the dust collection system will increase the combustible loading, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F01-OS1.1] Applies to the design of dust-collecting systems according to good engineering practice such as the NFPA standards.

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that combustible dust accumulations and dusts in suspension will reach unsafe concentrations or quantities in the building, which could lead to a fire or explosion in the presence of an ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that combustible dust will return into the atmosphere of the building, which could lead to an ignitable or hazardous accumulation of dust, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.1.4.(1)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire or explosion in the dust collector will lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire or explosion in the dust collector will lead to harm to persons.

Provision: 5.3.1.4.(2)

Objective

OP1

Attributions

[F02, F03-OP1.2] [F01-OP1.1]

Intent(s)

Intent 1. To remove from the application of Sentence 5.3.1.4.(1) and permit dust collectors to be located inside a building if they are provided with safety measures that would limit the probability of fire or explosion in the dust collector, which could lead to damage to the building.

Objective

OS1

Attributions

[F02, F03-OS1.2] [F01-OS1.1]

Intent(s)

Intent 1. To remove from the application of Sentence 5.3.1.4.(1) and permit dust collectors to be located inside a building if they are provided with safety measures that would limit the probability of fire or explosion in the dust collector, which could lead to harm to persons.

Provision: 5.3.1.4.(3)

Objective

OS1

Attributions

5.3.1.4.(3)(b) [F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire or explosion inside a dust collector will spread beyond the dust collector and inside the building, which could lead to harm to persons.

Objective

OP1

Attributions

5.3.1.4.(3)(b) [F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire or explosion inside a dust collector will spread beyond the dust collector and inside the building, which could lead to damage to the building.

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. [Clause (a)] To limit the probability that dust will return into the atmosphere of the building, which could lead to an ignitable or hazardous accumulation of dust, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. [Clause (b)] To limit the probability that a fire or explosion inside a dust collector will spread beyond the dust collector and inside the building, which could lead to harm to persons.

Intent 3. To permit exhaust air to return to the building if measures are taken that would limit the probability that ignitable concentrations of dusts will return into the building, which could lead to a fire or explosion in the dust collecting system, which could lead to harm to persons.

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To permit exhaust air to return to the building if measures are taken that would limit the probability that ignitable concentrations of dusts will return into the building, which could lead to a fire or explosion in the dust collecting system, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 5.3.1.5.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the buildup of a static electrical charge will generate sparks of sufficient energy to lead to an explosion in an atmosphere containing combustible dusts, which could lead to harm to persons.

Provision: 5.3.1.5.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that the buildup of a static electrical charge will generate sparks of sufficient energy to lead to an explosion in an atmosphere containing combustible dusts, which could lead to harm to persons.

Provision: 5.3.1.6.(1)

Objective

OS1

Attributions

[F02-OS1.3]

Intent(s)

Intent 1. To limit the probability that a dust explosion in a building will lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.3]

Intent(s)

Intent 1. To limit the probability that a dust explosion in a building will lead to damage to the building.

Provision: 5.3.1.6.(2)

Objective

OP1

Attributions

[F02-OP1.3]

Intent(s)

Intent 1. To limit the probability that a dust explosion will lead to critical structural and mechanical damage to the building, which could lead to the failure of structural or mechanical systems, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.3]

Intent(s)

Intent 1. To limit the probability that a dust explosion will lead to critical structural and mechanical damage to the building, which could lead to the failure of structural or mechanical systems, which could lead to harm to persons.

Provision: 5.3.1.7.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To remove from the application of Article 5.3.1.6. buildings in which:

- it is impracticable to provide adequate explosion venting to the outdoors, and
- the activity creating a combustible dust explosion hazard is provided with safety measures designed to limit the probability of a dust explosion, which could lead to harm to persons.

Provision: 5.3.1.7.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability of a dust explosion, which could lead to harm to persons.

Provision: 5.3.1.8.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that dust accumulations and suspended dusts will reach unsafe concentrations or quantities, which could lead to a fire or explosion in the presence of an ignition source, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 5.3.1.9.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that foreign material will enter into processing equipment or dusty atmospheres and will generate sparks or heat of sufficient energy to lead to the ignition of combustible dusts, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.1.10.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that combustible dusts will be ignited by sources such as sparks, open flames or heat, which could lead to a fire or explosion, which could lead to harm to persons.

Intent(s)

Intent 1. To exempt devices, operations or activities that produce open flames, sparks or heat from the application of Sentence 5.3.1.10.(1), which would otherwise prohibit such ignition sources, if measures are taken to control the ignition sources in a manner that will not create a fire or explosion hazard.

Provision: 5.3.1.10.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that portable electrical equipment will ignite combustible dusts, which could lead to an explosion or fire, which could lead to harm to persons.

Provision: 5.3.1.10.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that smoking material will ignite combustible dusts, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.2.1.(1)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that combustible materials in the dust collecting system will increase the combustible loading or contribute to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F01-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that the accumulation of wood dust particles and shavings will reach unsafe concentrations or quantities, which could lead to a fire or explosion in the presence of an ignition source, which could lead to harm to persons.

Intent 2. To limit the probability that displacement of dust into the atmosphere of a building will lead to an ignitable or hazardous accumulation of dust, which could lead to a fire or explosion in the presence of an ignition source, which could lead to harm to persons.

Intent 3. To limit the probability that combustible materials in the dust collecting system will increase the combustible loading or contribute to the spread of fire, which could lead to harm to persons.

Intent 4. To limit the probability that the operation of the dust collecting system will generate heat or sparks and ignite dust accumulation or clouds of dust, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.2.1.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that sparks or heat will ignite wood dust, particles, shavings or combustible vapours, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.2.2.(1)

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "Loose shavings and sawdust shall be collected at frequent intervals ..."

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that loose shavings and sawdust will accumulate in quantities that could lead to a fire or explosion in the presence of an ignition source, which could lead to harm to persons.

Intent(s)

Intent 1. To expand the application of Sentence 2.4.1.3.(4).

Provision: 5.3.2.3.(1)

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To supersede the requirements in Article 2.1.5.1. and Sentence 6.2.1.1.(1) for the placement of extinguishers in order to limit the probability of delays in locating portable extinguishers, which could lead to delays in carrying out fire suppression operations using the portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent(s)

Intent 1. To state the application of Article 2.1.5.1. and Sentence 6.2.1.1.(1).

Provision: 5.3.3.1.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that stored products will overheat, which could lead to spontaneous ignition, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.3.1.(2)

Intent(s)

Intent 1. To exempt grain storage bins from the application of the requirement for mechanical exhaust ventilation [dust-collecting system] in Sentence 5.3.1.3.(1), and to permit them to be ventilated by open vent stacks only if mechanical exhaust ventilation is impracticable, and if the open vent stacks:

- are large enough to allow for air displacement as the bin is emptied or filled, so that the bin does not become significantly pressurized or depressurized,
- prevent dust accumulating in vents from obstructing their effectiveness,
- vent to the exterior the dust-laden air displaced from the bins, and
- prevent entry of rain or snow from impairing effectiveness of the vents.

Provision: 5.3.3.2.(1)

Objective

OS1

Attributions

[F81, F11, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that malfunctioning equipment will lead to the generation of heat, flames or sparks, which could lead to the ignition of combustible dusts, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.3.2.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that static electricity buildup on the conveyor systems will generate sparks of sufficient energy to ignite combustible dusts, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.3.2.(3)

Objective

OS1

Attributions

[F01, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that a buildup of friction heat in the bearings will ignite combustible dusts or material, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.3.2.(4)

Intent(s)

Intent 1. To state the application of Sentence 5.3.1.6.(2).

Provision: 5.3.3.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that foreign material entering into processing and conveying equipment will generate sparks or heat of sufficient energy to ignite combustible dusts, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.3.3.4.(1)

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regard to spray nozzles for standpipe and hose systems in grain handling and storage facilities.

Provision: 5.4.1.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 5.4.1.

Provision: 5.4.1.2.(1)

Objective

OS1

Attributions

[F01, F82-OS1.1] [F02, F03, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that baking and drying processes where flammable vapours are given off will lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that a fire or explosion caused by baking and drying processes where flammable vapours are given off will spread beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F82-OP1.1] [F02, F03, F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that baking and drying processes where flammable vapours are given off will lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 2. To limit the probability that a fire or explosion caused by baking and drying processes where flammable vapours are given off will spread beyond the point of origin, which could lead to damage to the building or facility.

Provision: 5.4.2.1.(1)

Objective

OS1

Attributions

[F01, F81-OS1.1] [F02, F03, F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that dry cleaning operations will lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that a fire or explosion caused by dry cleaning operations will spread beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F81-OP1.1] [F02, F03, F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that dry cleaning operations will lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 2. To limit the probability that a fire or explosion caused by dry cleaning operations will spread beyond the point of origin, which could lead to damage to the building or facility.

Provision: 5.4.3.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 5.4.3.

Provision: 5.4.3.2.(1)

Objective

OS3

Attributions

[F13-OS3.4]

Intent(s)

Intent 1. To limit the probability that appropriate safety measures will not be taken, which could lead to short-term exposure to toxic fumigants from fumigation or thermal insecticide fogging operations, which could lead to harm to persons.

Objective

OS1

Attributions

[F13-OS1.1]

Intent(s)

Intent 1. To limit the probability that appropriate safety measures will not be taken, which could lead to the ignition of vapours from fumigation or thermal insecticide fogging operations, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 5.4.3.2.(2)

Objective

OS3

Attributions

[F11-OS3.4]

Intent(s)

Intent 1. To limit the probability that appropriate safety measures will not be taken, which could lead to short-term exposure to toxic fumigants from fumigation or thermal insecticide fogging operations, which could lead to harm to persons.

Objective

OS1

Attributions

[F11-OS1.1]

Intent(s)

Intent 1. To limit the probability that appropriate safety measures will not be taken, which could lead to the ignition of vapours from fumigation or thermal insecticide fogging operations, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.4.3.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that fumigants will be ignited, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.4.3.4.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that electrical discharge will ignite fumigants, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.4.3.5.(1)

Objective

OS1

Attributions

[F81-OS1.2]

Intent(s)

Intent 1. To limit the probability that accidental actuation of a fire suppression or fire alarm system will make it unavailable in case of a fire emergency, which could lead to delayed notification of occupants and spread of the fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.2]

Intent(s)

Intent 1. To limit the probability that accidental actuation of a fire suppression system will make it unavailable in case of a fire emergency, which could lead to spread of the fire to other parts of the building, which could lead to damage to the building.

Provision: 5.4.3.6.(1)

Objective

OS3

Attributions

[F34-OS3.4]

Intent(s)

Intent 1. To limit the probability that short-term exposure to toxic fumigants will lead to harm to persons in the premises undergoing fumigation.

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that inappropriate actions of unauthorized persons will lead to the ignition of fumigants, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.4.3.6.(2)

Objective

OS3

Attributions

[F34-OS3.4]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that short-term exposure to toxic fumigants will lead to harm to persons in the premises undergoing fumigation.

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that inappropriate actions of unauthorized persons will lead to the ignition of fumigants, which could lead to harm to persons.

Provision: 5.4.3.6.(3)

Objective

OS3

Attributions

[F34-OS3.4]

Intent(s)

Intent 1. To limit the probability that short-term exposure to toxic fumigants will lead to harm to persons in the premises undergoing fumigation.

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that inappropriate actions of unauthorized persons will lead to the ignition of fumigants, which could lead to harm to persons.

Provision: 5.4.4.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 5.4.4.

Intent 2. To direct Code users to Part 4.

Provision: 5.4.4.2.(1)

Objective

OS3

Attributions

[F34-OS3.4]

Intent(s)

Intent 1. To limit the probability that short-term exposure to toxic vapours will lead to harm to persons in the premises where floor finishing operations are conducted.

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours will ignite in the premises where floor finishing operations are conducted, which could lead to harm to persons.

Intent 2. To limit the probability that inappropriate actions of unauthorized persons will lead to the ignition of flammable and combustible liquids, which could lead to harm to persons.

Provision: 5.4.4.3.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours will accumulate to ignitable concentrations in areas where they can be in the presence of ignition sources, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.4.4.3.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that mechanical ventilation systems will ignite vapours, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.4.4.4.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours will ignite, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 5.4.4.5.(1)

Objective

OP1

Attributions

[F02-OP1.2] Applies to the daily removal of contents.

Intent(s)

Intent 1. To limit the probability that combustible content will increase, which could lead to the spread of a fire involving waste rags beyond the point of origin, which could lead to damage to the building.

Objective

OS1

Attributions

[F02-OS1.2] Applies to the daily removal of contents.

Intent(s)

Intent 1. To limit the probability that combustible content will increase, which could lead to the spread of a fire involving waste rags beyond the point of origin, which could lead to harm to persons.

Objective

OS1

Attributions

[F01-OS1.1] Applies to the disposal of contents in a manner that will not create a fire hazard.

Intent(s)

Intent 1. To limit the probability that waste rags and materials and the vapours they generate will be ignited by spontaneous ignition or external sources of ignition, which could lead to harm to persons.

Intent(s)

Intent 1. To expand the application of Sentence 2.4.1.3.(4).

Provision: 5.4.5.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 5.4.5.

Provision: 5.4.5.2.(1)

Objective

OS1

Attributions

[F01, F82-OS1.1] [F02, F03, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that spray coating processes will lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that a fire or explosion caused by spray coating processes will spread beyond the point of origin, which could lead to harm to persons.

Provision: 5.4.6.1.(1)

Intent(s)

Intent 1. To state the application of Subsection 5.4.6.

Provision: 5.4.6.2.(1)

Objective

OS1

Attributions

[F01, F82-OS1.1] [F02, F03, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that dipping and coating processes will lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that a fire or explosion caused by dipping and coating processes will spread beyond the point of origin, which could lead to harm to persons.

Provision: 5.5.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 5.5.

Provision: 5.5.1.1.(2)

Intent(s)

Intent 1. To direct Code users to Parts 3, 4 and 5.

Intent(s)

Intent 1. To clarify that the specific provisions of Section 5.5. override the more general requirements in Parts 3, 4 and 5 in case of conflict.

Provision: 5.5.2.1.(1)

Intent(s)

Intent 1. To expand the application of Articles 3.2.7.7. and 3.2.7.8.

Provision: 5.5.2.2.(1)

Objective

OS1

Attributions

[F03-OS1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To expand the application of the National Building Code of Canada to existing buildings in regards to the fire separations of laboratories.

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire in a laboratory will spread to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that the laboratory room fire separation will have insufficient resistance to fire, which could lead to the premature failure of the fire separation in a fire within the room, which could lead to the spread of the fire from the room to other parts of the building, which could lead to damage to the building.

Intent(s)

Intent 1. To make the National Building Code of Canada [with respect to requirements pertaining to fire-resistance ratings of fire separations] applicable to existing laboratories [as opposed to only new laboratories].

Provision: 5.5.3.1.(1)

Intent(s)

Intent 1. To direct Code users to Section 2.8. and Subsection 5.1.5.

Intent(s)

Intent 1. To clarify that the specific requirements in Sentences 5.5.3.1.(2) to 5.5.3.1.(6) take precedence over the general provisions of Section 2.8. and Subsection 5.1.5.

Provision: 5.5.3.1.(2)

Objective

OS1

Attributions

[F12-OS1.5]

Intent(s)

Intent 1. To override the [maximum] 12-month intervals of Sentence 2.8.3.2.(1) by requiring that the intervals for fire drills be not greater than 3 months.

This is to limit the probability that inappropriate actions will be taken during a fire emergency, which could lead to harm to persons.

Provision: 5.5.3.1.(3)

Intent(s)

Intent 1. To expand the application of Article 3.2.7.15.

Provision: 5.5.3.1.(4)

Intent(s)

Intent 1. To expand the application of Article 3.2.7.13.

Provision: 5.5.3.1.(5)

Intent(s)

Intent 1. To expand the application of Article 3.2.7.14.

Provision: 5.5.3.1.(6)

Objective

OS1

Attributions

[F34-OS1.1]

Intent(s)

Intent 1. To limit the probability that the actions of unauthorized or improperly trained persons will lead to an unwanted escape of dangerous goods or a fire hazard, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS3

Attributions

[F34-OS3.4]

Intent(s)

Intent 1. To limit the probability that the actions of unauthorized or improperly trained persons will lead to an unwanted escape of dangerous goods, which could lead to harm to persons, including emergency responders.

Objective

OH5

Attributions

[F34-OH5]

Intent(s)

Intent 1. To limit the probability that the actions of unauthorized or improperly trained persons will lead to an unwanted escape of dangerous goods, which could lead to harm to the public.

Intent Statements: NFC 2010

Provision: 5.5.3.2.(1)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that excessive quantities of combustible materials will be involved in a fire, which could lead to the spread of fire from the laboratory to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that excessive quantities of combustible materials will be involved in a fire, which could lead to the spread of the fire from the laboratory to other parts of the building, which could lead to damage to the building.

Provision: 5.5.3.2.(2)

Objective

OS1

Attributions

[F02-OS1.2] Applies to storing outside the laboratory.

Intent(s)

Intent 1. To limit the probability that excessive quantities of combustible materials will be involved in a fire, which could lead to the spread of the fire from the laboratory to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2] Applies to storing outside the laboratory.

Intent(s)

Intent 1. To limit the probability that excessive quantities of combustible materials will be involved in a fire, which could lead to the spread of fire from the laboratory to other parts of the building, which could lead to damage to the building.

Intent(s)

Intent 1. To direct Code users to Section 3.2.

Provision: 5.5.3.3.(1)

Objective

OS1

Attributions

[F01-OS1.1] [F02-OS1.2] Applies to portion of Code text: "Absorbent and neutralizing materials shall be provided in the laboratory and in the *dangerous goods* storage areas ..."

Intent(s)

Intent 1. To limit the probability of ignition of the escaped product or its reaction with incompatible products, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of excessive combustible and hazardous content, which could lead to the spread of a fire involving the escaped product beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.1] [F02-OP1.2] Applies to portion of Code text: "Absorbent and neutralizing materials shall be provided in the laboratory and in the *dangerous goods* storage areas ..."

Intent(s)

Intent 1. To limit the probability of ignition of the escaped product or its reaction with incompatible products, which could lead to a fire or explosion, which could lead to damage to the building.

Intent 2. To limit the probability of excessive combustible and hazardous content, which could lead to the spread of a fire involving the escaped product beyond the point of origin, which could lead to damage to the building.

Intent(s)

Intent 1. To expand the application of Sentence 3.2.7.11.(2).

Provision: 5.5.3.4.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that electrical equipment will ignite vapours, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.5.3.4.(2)

Objective

OP1

Attributions

5.5.3.4.(2)(b) [F02-OP1.2] [F82-OP1.1]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that combustible or reactive deposits will accumulate, which could lead to an increase of the combustible content and fire severity, which could lead to the spread of a fire in the laboratory to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that combustible or reactive deposits will accumulate, which could lead to obstruction of the ventilation system and reduction of its exhaust capacity, which could lead to an explosive atmosphere, which in the presence of a source of ignition could lead to a fire or explosion, which could lead to damage to the building.

Intent 3. To limit the probability that combustible or reactive deposits will accumulate on the blades of the exhaust fan, which could lead to its misalignment or improper operation, which could lead to the generation of sparks or heat and the ignition of deposits or explosive vapours or mists, which could lead to a fire or explosion, which could lead to damage to the building.

Objective

OS1

Attributions

5.5.3.4.(2)(b) [F02-OS1.2] [F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that combustible or reactive deposits will accumulate, which could lead to an increase of the combustible content and fire severity, which could lead to the spread of a fire in the laboratory to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that combustible or reactive deposits will accumulate, which could lead to obstruction of the ventilation system and reduction of its exhaust capacity, which could lead to an explosive atmosphere, which in the presence of a source of ignition could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability that combustible or reactive deposits will accumulate on the blades of the exhaust fan, which could lead to its misalignment or improper operation, which could lead to the generation of sparks or heat and the ignition of deposits or explosive vapours or mists, which could lead to a fire or explosion, which could lead to harm to persons.

Attributions

5.5.3.4.(2)(a)

Intent(s)

Intent 1. To state the application of Sentence 5.5.3.4.(1)

Provision: 5.5.3.5.(1)

Objective

OS1

Attributions

[F01-OS1.1] Applies to portion of Code text: "Smoking shall not be permitted in a laboratory ..."

Intent(s)

Intent 1. To limit the probability that smoking material will lead to a fire or explosion, which could lead to harm to persons.

Intent(s)

Intent 1. To state the application of Article 2.4.2.2.

Provision: 5.5.3.5.(2)

Objective

OS1

Attributions

5.5.3.5.(2)(a) [F11-OS1.1]

Intent(s)

Intent 1. To limit the probability that persons will not be notified in the event of equipment overheating, which could lead to corrective action not being taken, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

5.5.3.5.(2)(a) [F11-OP1.1]

Intent(s)

Intent 1. To limit the probability that persons will not be notified in the event of equipment overheating, which could lead to corrective action not being taken, which could lead to a fire or explosion, which could lead to damage to the building.

Objective

OS1

Attributions

5.5.3.5.(2)(b) [F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that overheating of equipment will lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.5.3.5.(3)

Objective

OS1

Attributions

[F01, F02-OS1.1, OS1.2]

Intent(s)

Intent 1. To override the prohibition for ignition sources in Sentence 4.1.5.2.(1) and the requirement for electrical equipment in Sentences 4.1.4.1.(1) and Sentence 5.5.3.4.(1) if:

- the ignition source is necessary for the conduct of laboratory operations [i.e. is an integral part of them], and
- measures are taken to limit the probability that the ignition source will lead to an uncontrolled fire and spread beyond the point of origin, which could lead to harm to persons.

Intent 2. To state the application of Article 5.5.4.2., with respect to the exhausting of flammable vapours and combustion fumes.

Intent Statements: NFC 2010

Provision: 5.5.3.6.(1)

Objective

OS1

Attributions

[F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that ineffectiveness or failure of the components [electrical equipment, mechanical systems, piping, valves, and automatic and manual control and safety devices] will lead to an unwanted release of dangerous goods, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that the components [electrical equipment, mechanical systems, piping, valves, and automatic and manual control and safety devices] will not operate as originally intended in a fire situation, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS3

Attributions

[F82-OS3.4]

Intent(s)

Intent 1. To limit the probability that ineffectiveness or failure of the components [electrical equipment, mechanical systems, piping, valves, and automatic and manual control and safety devices] will lead to an unwanted release of dangerous goods, which could lead to harm to persons.

Objective

OH5

Attributions

[F82-OH5]

Intent(s)

Intent 1. To limit the probability that ineffectiveness or failure of the components [electrical equipment, mechanical systems, piping, valves, and automatic and manual control and safety devices] will lead to an unwanted release of dangerous goods, which could lead to harm to the public.

Objective

OP1

Attributions

[F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that ineffectiveness or failure of the components [electrical equipment, mechanical systems, piping, valves, and automatic and manual control and safety devices] will lead to an unwanted release of dangerous goods, which could lead to a fire or explosion, which could lead to damage to the building.

Intent 2. To limit the probability that the components [electrical equipment, mechanical systems, piping, valves, and automatic and manual control and safety devices] will not operate as originally intended in a fire situation, which could lead to a fire or explosion, which could lead to damage to the building.

Provision: 5.5.4.1.(1)

Attributions

5.5.4.1.(1)(a)

Intent(s)

Intent 1. To direct users to Article 6.2.12.2.-2010 of the NBC for the design of mechanical ventilation systems for laboratories.

Objective

OS1

Attributions

5.5.4.1.(1)(b) [F81, F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that combustible or reactive deposits will accumulate, which could lead to an increase of the combustible content and fire severity, which could lead to the spread of a fire in the laboratory to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that combustible or reactive deposits will accumulate, which could lead to obstruction of the ventilation system and reduction of its exhaust capacity, which could lead to an explosive atmosphere, which in the presence of a source of ignition could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability that combustible or reactive deposits will accumulate on the blades of the exhaust fan, which could lead to its misalignment or improper operation, which could lead to the generation of sparks or heat and the ignition of deposits or explosive vapours or mists, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.5.3.6.(2)

Objective

OS1

Attributions

[F02-OS1.2] [F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that combustible or reactive deposits will accumulate, which could lead to an increase of the combustible content and fire severity, which could lead to the spread of a fire in the laboratory to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that combustible or reactive deposits will accumulate, which could lead to obstruction of the ventilation system and reduction of its exhaust capacity, which could lead to an explosive atmosphere, which in the presence of a source of ignition could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability that combustible or reactive deposits will accumulate on the blades of the exhaust fan, which could lead to its misalignment or improper operation, which could lead to the generation of sparks or heat and the ignition of deposits or explosive vapours or mists, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that combustible or reactive deposits will accumulate, which could lead to an increase of the combustible content and fire severity, which could lead to the spread of a fire in the laboratory to other parts of the building, which could lead to damage to the building.

Provision: 5.5.4.2.(1)

Intent(s)

Intent 1. To direct users to Articles 6.2.12.3. and 6.2.12.4. of the NBC for the design of power-ventilated enclosures for laboratories.

Provision: 5.5.4.2.(2)

Objective

OS1

Attributions

[F02-OS1.2] Applies to portion of Code text: "A power-ventilated enclosure required in Sentence (1) shall not be used for the storage of *dangerous goods* ..."

Intent(s)

Intent 1. To limit the probability that an excessive combustible content will increase fire severity, which could lead to a fire in a power-ventilated enclosure beyond the point of origin and to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2] Applies to portion of Code text: "A power-ventilated enclosure required in Sentence (1) shall not be used for the storage of *dangerous goods* ..."

Intent(s)

Intent 1. To limit the probability that an excessive combustible content will increase fire severity, which could lead to a fire in a power-ventilated enclosure beyond the point of origin and to other parts of the building, which could lead to damage to the building.

Intent(s)

Intent 1. To state the application of Subsection 5.5.5.

Provision: 5.5.4.3.(1)

Intent(s)

Intent 1. To direct Code users to Article 6.2.12.3. of the NBC for the design of ventilation systems for laboratories.

Provision: 5.5.4.3.(2)

Objective

OS1

Attributions

5.5.4.3.(2)(a) [F02-OS1.2] [F82-OS1.1]

Intent(s)

Intent 1. To limit the probability that combustible or reactive deposits will accumulate, which could lead to an increase of the combustible content and fire severity, which could lead to the spread of a fire in the laboratory to other parts of the building, which could lead to harm to persons.

Intent 2. To limit the probability that combustible or reactive deposits will accumulate, which could lead to obstruction of the ventilation system and reduction of its exhaust capacity, which could lead to an explosive atmosphere, which in the presence of a source of ignition could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability that combustible or reactive deposits will accumulate on the blades of the exhaust fan, which could lead to its misalignment or improper operation, which could lead to the generation of sparks or heat and the ignition of deposits or explosive vapours or mists, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

5.5.4.3.(2)(a) [F02-OP1.2] [F82-OP1.1]

Intent(s)

Intent 1. To limit the probability that combustible or reactive deposits will accumulate, which could lead to an increase of the combustible content and fire severity, which could lead to the spread of a fire in the laboratory to other parts of the building, which could lead to damage to the building.

Intent 2. To limit the probability that combustible or reactive deposits will accumulate, which could lead to obstruction of the ventilation system and reduction of its exhaust capacity, which could lead to an explosive atmosphere, which in the presence of a source of ignition could lead to a fire or explosion, which could lead to damage to the building.

Intent 3. To limit the probability that combustible or reactive deposits will accumulate on the blades of the exhaust fan, which could lead to its misalignment or improper operation, which could lead to the generation of sparks or heat and the ignition of deposits or explosive vapours or mists, which could lead to a fire or explosion, which could lead to damage to the building.

Attributions

5.5.4.3.(2)(b)

Intent(s)

Intent 1. To state the application of Article 2.1.3.5., Sentence 6.4.1.1.(1), Article 2.1.3.6. and Article 6.6.1.1.

Provision: 5.5.4.4.(1)

Intent Statements: NFC 2010

Intent(s)

Intent 1. To direct Code users to Article 6.2.12.4. of the NBC for the design of the enclosure for mechanical ventilation systems for laboratories.

Provision: 5.5.5.1.(1)

Objective

OS1

Attributions

5.5.5.1.(1)(a) [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that excessive quantities of combustible or reactive products will be involved in a fire, which could lead to an increase in fire severity, which could lead to the spread of fire in the laboratory to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

5.5.5.1.(1)(a) [F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that excessive quantities of combustible or reactive products will be involved in a fire, which could lead to an increase in fire severity, which could lead to the spread of fire in the laboratory to other parts of the building, which could lead to damage to the building.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that excessive quantities of combustible or reactive products will be involved in a fire, which could lead to an increase in fire severity, which could lead to the spread of fire in the laboratory to other parts of the building, which could lead to harm to persons.

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that excessive quantities of combustible or reactive products will be involved in a fire, which could lead to an increase in fire severity, which could lead to the spread of fire in the laboratory to other parts of the building, which could lead to harm to persons.

Attributions

5.5.5.1.(1)(a), 5.5.5.1.(1)(b), 5.5.5.1.(1)(b)(ii)

Intent(s)

Intent 1. To expand the application of the quantity limits in Sentence 4.2.6.3.(1).

Attributions

5.5.5.1.(1)(a)

Intent(s)

Intent 1. To exempt laboratories from the application of Article 4.2.8.2. and to reduce the quantities otherwise permitted [600 L in containers] to be kept in the open in an industrial occupancy.

Provision: 5.5.5.1.(2)

Attributions

5.5.5.1.(2)(a), 5.5.5.1.(2)(b)

Intent(s)

Intent 1. To state the application of Subsections 4.2.9. and 4.2.10.

Attributions

5.5.5.1.(2)(a)

Intent(s)

Intent 1. To exempt cabinets in a laboratory located in a Group B major occupancy from the application of Sentence 4.2.10.3.(1) and to reduce the quantities otherwise permitted [3 cabinets] in a fire compartment.

Provision: 5.5.5.1.(3)

Objective

OS1

Attributions

[F02-OS1.2] Applies to storing outside the laboratory.

Intent(s)

Intent 1. To limit the probability that excessive quantities of combustible or reactive products will be involved in a fire, which could lead to an increase in fire severity, which could lead to the spread of fire in the laboratory to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2] Applies to storing outside the laboratory.

Intent(s)

Intent 1. To limit the probability that excessive quantities of combustible or reactive products will be involved in a fire, which could lead to an increase in fire severity, which could lead to the spread of the fire in the laboratory to other parts of the building, which could lead to damage to the building.

Intent(s)

Intent 1. To direct Code users to Part 3.

Intent Statements: NFC 2010

Provision: 5.5.5.2.(1)

Intent(s)

Intent 1. To direct Code users to Subsection 4.2.3.

Provision: 5.5.5.2.(2)

Objective

OS1

Attributions

[F02, F04-OS1.2] [F43, F01-OS1.1]

Intent(s)

Intent 1. To remove the prohibition in Sentence 4.1.5.8.(1) to store Class I liquids in basements if such liquids are:

- in such limited quantities that they do not pose a serious fire hazard, and
- in containers that will reduce the risk of release and ignition of vapours and the risk of spillage under normal conditions, and are less likely to explode under fire conditions.

Intent 2. To override the choices offered in Clauses 4.2.3.1.(1)(a) to 4.2.3.1.(1)(e).

Intent 3. To limit the probability of the release and ignition of vapours and the escape of liquids under normal conditions, and rupture and explosion of the container under fire conditions, which could lead to harm to persons.

Intent 4. To state the application of Clause 4.2.3.1.(1)(d) with respect to the design and construction of [safety] containers.

Provision: 5.5.5.2.(3)

Objective

OS1

Attributions

[F43, F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours will be released or that flammable or combustible liquids will escape, which could lead to a fire or explosion in the presence of a source of ignition, which could lead to harm to persons.

Provision: 5.5.5.3.(1)

Objective

OS1

Attributions

[F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that storage cylinders or piping systems will be physically damaged, which could lead to the release of compressed gases, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS3

Attributions

[F81-OS3.4]

Intent(s)

Intent 1. To limit the probability that storage cylinders or piping systems will be physically damaged, which could lead to the release of compressed gases, which could lead to harm to persons, including emergency responders.

Provision: 5.5.5.3.(2)

Objective

OS1

Attributions

5.5.5.3.(2)(a) [F81-OS1.1] [F12-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that inappropriate actions by laboratory personnel or emergency responders will lead to the unwanted release or mixing of gases, which could lead to a fire or explosion, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that delays or ineffectiveness in conducting firefighting or spill control operations will lead to a fire or explosion, or in a fire spreading beyond the point of origin, which could lead to harm to persons, including emergency responders.

Objective

OS3

Attributions

5.5.5.3.(2)(b) [F12-OS3.4]

Intent(s)

Intent 1. To limit the probability that delays in shutting off the gas supply will lead to the unwanted release of gases, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

5.5.5.3.(2)(b) [F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that delays in shutting off the gas supply will lead to the unwanted release of gases, which could lead to a fire or explosion, or the spread of fire to other parts of the building, which could lead to damage to the building.

Objective

OP1

Attributions

5.5.5.3.(2)(a) [F12-OP1.2]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that delays or ineffectiveness in conducting firefighting or spill control operations will lead to a fire or explosion, or in a fire spreading beyond the point of origin, which could lead to damage to the building.

Objective

OS3

Attributions

5.5.5.3.(2)(a) [F81, F12-OS3.4]

Intent(s)

Intent 1. To limit the probability that inappropriate actions by laboratory personnel or emergency responders will lead to the unwanted release or mixing of gases, which could lead to harm to persons, including emergency responders.

Objective

OS1

Attributions

5.5.5.3.(2)(b) [F12-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that delays in shutting off the gas supply will lead to the unwanted release of gases, which could lead to a fire or explosion, or the spread of fire to other parts of the building, which could lead to harm to persons.

Provision: 5.5.5.3.(3)

Objective

OS1

Attributions

[F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that gases will be released from cylinders when not in use, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OS3

Attributions

[F43-OS3.4]

Intent(s)

Intent 1. To limit the probability that gases will be released from cylinders when not in use, which could lead to harm to persons, including emergency responders.

Provision: 5.5.5.4.(1)

Intent(s)

Intent 1. To expand the application of Article 3.2.7.14.

Provision: 5.5.5.4.(2)

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours will be released, or that flammable liquids or combustible liquids will escape, which could lead to a fire or explosion in the presence of a source of ignition, which could lead to harm to persons.

Provision: 5.5.5.5.(1)

Attributions

5.5.5.5.(1)(a)

Intent(s)

Intent 1. To expand the application of Articles 5.5.4.3. and 5.5.4.4., which would otherwise apply where dangerous goods are used in laboratories, to areas in laboratories where unstable substances are heated above normal ambient temperature.

Objective

OS1

Attributions

5.5.5.5.(1)(b) [F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that vapours or deposits of unstable substances, such as perchloric acid, will react with incompatible products or materials, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.5.5.5.(2)

Objective

OS1

Attributions

[F01-OS1.1] [F02-OS1.2]

Intent(s)

Intent 1. To limit the probability that reactive deposits will accumulate, which could lead to a fire or explosion or to the spread of fire beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.1] [F02-OP1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that reactive deposits will accumulate, which, in the event of a fire, could lead to the spread of fire to other parts of the building, which could lead to damage to the building or facility.

Provision: 5.5.5.5.(3)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that unstable substances, such as perchloric acid, will be ignited or overheated, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.5.5.6.(1)

Objective

OS1

Attributions

5.5.5.6.(1)(a) [F81-OS1.1]

Intent(s)

Intent 1. To limit the probability that incompatible products will be accidentally mixed, which could lead to a fire or explosion, which could lead to harm to persons.

Attributions

5.5.5.6.(1)(b)

Intent(s)

Intent 1. To clarify that Article 5.5.5.1. applies to wastes as well as to new products.

Provision: 5.6.1.1.(1)

Intent(s)

Intent 1. To state the application of Section 5.6.

Provision: 5.6.1.2.(1)

Objective

OP3

Attributions

[F02, F03-OP3.1]

Intent(s)

Intent 1. To limit the probability of the spread of fire from the building, or parts thereof, being constructed, altered or demolished to adjacent buildings or facilities during the time required for emergency responders to perform their duties, which could lead to damage to the adjacent buildings or facilities.

Provision: 5.6.1.3.(1)

Objective

OS1

Attributions

[F11, F13, F12-OS1.2, OS1.5] [F01, F82-OS1.1] [F02, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that:

- persons and emergency responders will not be notified of a fire emergency,
- emergency responders will be delayed in carrying out their duties,
- designated supervisory staff will not be appointed and organized to respond to fire emergencies, and
- firefighting procedures will not be established.

This is to limit the probability of delays or ineffectiveness in conducting firefighting operations or in the evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders.

Intent 2. To limit the probability that:

- fire hazards will not be controlled, and
- building facilities, systems, equipment and devices will not be properly maintained.

This is to limit the probability of the start or spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F13, F12-OP1.2] [F01, F82-OP1.1] [F02, F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that:

- emergency responders will not be notified of a fire emergency,
- emergency responders will be delayed in carrying out their duties,
- designated supervisory staff will not be appointed and organized to respond to fire emergencies, and
- firefighting procedures will not be established.

This is to limit the probability of delays or ineffectiveness in conducting firefighting operations, which could lead to damage to the building or facility.

Intent 2. To limit the probability that:

- fire hazards will not be controlled, and
- building facilities, systems, equipment and devices will not be properly maintained.

This is to limit the probability of the start or spread of fire, which could lead to damage to the building or facility.

Provision: 5.6.1.3.(2)

Intent(s)

Intent 1. To direct Code users to Section 2.8.

Intent Statements: NFC 2010

Provision: 5.6.1.4.(1)

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will be delayed in accessing fire protection equipment, which could lead to delays in carrying out fire suppression operations using such equipment, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will be delayed in accessing fire protection equipment, which could lead to delays in carrying out fire suppression operations using such equipment, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 5.6.1.4.(2)

Objective

OS1

Attributions

[F12-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that firefighters will not have the means to perform their duties on all levels of a building or parts thereof, which could lead to delays during firefighting operations, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To limit the probability that emergency responders will be delayed in carrying out fire emergency operations [e.g. rescue operations], which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that firefighters will not have the means to perform their duties on all levels of a building or parts thereof, which could lead to delays during firefighting operations, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 5.6.1.4.(3)

Objective

OS1

Attributions

[F12-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that emergency responders will not be able to readily use existing elevators, hoists or lifts in a fire situation, which could lead to delays or inefficiencies in fire emergency response operations, which could lead to:

- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders, and
- the spread of fire to other parts of the building, which could lead to harm to persons, including emergency responders.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will not be able to readily use existing elevators, hoists or lifts in a fire situation, which could lead to delays or inefficiencies in fire emergency response operations, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building or facility.

Provision: 5.6.1.4.(4)

Objective

OS1

Attributions

[F12-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that a lack of site access will lead to delays during firefighting operations, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To limit the probability that emergency responders will be delayed in carrying out fire emergency operations [e.g. rescue operations], which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that a lack of site access will lead to delays during firefighting operations, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 5.6.1.4.(5)

Objective

OS1

Attributions

[F12-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that emergency responders will be delayed in carrying out fire emergency operations [e.g. rescue operations], which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent 2. To limit the probability that a lack of site access will lead to delays during firefighting operations, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that a lack of site access will lead to delays during firefighting operations, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 5.6.1.5.(1)

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability of delays in locating and reaching portable extinguishers, which could lead to delays in carrying out fire suppression operations using portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability of delays in locating and reaching portable extinguishers, which could lead to delays in carrying out fire suppression operations using portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 5.6.1.5.(2)

Objective

OS1

Attributions

[F02-OS1.2]

Intent(s)

Intent 1. To supersede the ratings specified in Article 2.1.5.1.

This is to limit the probability of ineffectiveness in carrying out fire suppression operations using portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To supersede the ratings specified in Article 2.1.5.1.

This is to limit the probability of ineffectiveness in carrying out fire suppression operations using portable extinguishers, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Provision: 5.6.1.6.(1)

Objective

OS1

Attributions

[F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that standpipe systems will not be available for use by emergency responders in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To direct Code users to Subsection 3.2.5. of the National Building Code.

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that standpipe systems will not be available for use by emergency responders in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire, which could lead to damage to the building or facility.

Intent 2. To direct Code users to Subsection 3.2.5. of the National Building Code.

Intent Statements: NFC 2010

Provision: 5.6.1.6.(2)

Objective

OS1

Attributions

[F02, F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that standpipe systems will not be available for use by emergency responders in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F02, F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that standpipe systems will not be available for use by emergency responders in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire, which could lead to damage to the building or facility.

Attributions

5.6.1.6.(2)(c)

Intent(s)

Intent 1. To direct Code users to Subsection 3.2.5. of the National Building Code in regard to pipe sizing, hose valves and water supply.

Provision: 5.6.1.6.(3)

Objective

OS1

Attributions

[F12, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that standpipe systems will not operate as intended, which could lead to their being ineffective in suppressing or controlling a fire, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F12, F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that standpipe systems will not operate as intended, which could lead to their being ineffective in suppressing or controlling a fire, which could lead to the spread of fire, which could lead to damage to the building or facility.

Provision: 5.6.1.7.(1)

Intent(s)

Intent 1. To expand the definition of “hot works.”

Intent 2. To expand the application of Section 5.2. to roofing operations and other surface applications involving heat sources and hot processes.

Provision: 5.6.1.7.(2)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that a fire in the bitumen heating equipment will ignite adjacent materials, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that a fire in the bitumen heating equipment will ignite adjacent materials, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Provision: 5.6.1.7.(3)

Objective

OS1

Attributions

[F01-OS1.2]

Intent(s)

Intent 1. To limit the probability that mops used for spreading bitumen will spontaneously ignite, which could lead to the spread of fire to the building or facility, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.2]

Intent(s)

Intent 1. To limit the probability that mops used for spreading bitumen will spontaneously ignite, which could lead to the spread of fire to the building or facility, which could lead to damage to the building or facility.

Intent Statements: NFC 2010

Provision: 5.6.1.8.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that ignition sources such as open flames, sparks or heat will ignite combustible materials, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that ignition sources such as open flames, sparks or heat will ignite combustible materials, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Provision: 5.6.1.8.(2)

Objective

OS1

Attributions

[F01-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that temporary heating equipment will ignite combustible materials, which could lead to the spread of fire or explosion, which could lead to harm to persons.

Intent 2. To state the application of Part 6 of the National Building Code.

Objective

OP1

Attributions

[F01-OP1.1]

Intent(s)

Intent 1. To limit the probability that temporary heating equipment will ignite combustible materials, which could lead to fire or explosion, which could lead to damage to the building or facility.

Intent 2. To state the application of Part 6 of the National Building Code.

Provision: 5.6.1.9.(1)

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability that live building services [e.g. electrical installations] will be damaged during demolition operations, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability of the unwanted release of flammable liquids or vapours from live building services [e.g. gas and fuel lines] during demolition operations, which could lead to their accumulation in ignitable concentrations, which could lead to a fire or explosion, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F43-OP1.1]

Intent(s)

Intent 1. To limit the probability that live building services [e.g. electrical installations] will be damaged during demolition operations, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 2. To limit the probability of the unwanted release of flammable liquids or vapours from live building services [e.g. gas and fuel lines] during demolition operations, which could lead to their accumulation in ignitable concentrations, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Objective

OS3

Attributions

[F32-OS3.3]

Intent(s)

Intent 1. To limit the probability that energized equipment will be damaged during demolition operations, which could lead to safety hazards [e.g. electrocution], which could lead to harm to persons.

Provision: 5.6.1.9.(2)

Objective

OS1

Attributions

[F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that services will be shut off or disconnected in an unsafe manner, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that services that are to be maintained will be physically damaged [e.g. damage to fuel lines causing an unwanted leak], which could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability that water services that are to be maintained will be physically damaged, which could lead to an inadequate water supply to fire suppression systems [sprinklers, standpipes, yard hydrants] in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire, which could lead to harm to persons.

Intent Statements: NFC 2010

Objective

OP1

Attributions

[F81-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that services will be shut off or disconnected in an unsafe manner, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 2. To limit the probability that services that are to be maintained will be physically damaged [e.g. damage to fuel lines causing an unwanted leak], which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 3. To limit the probability that water services that are to be maintained will be physically damaged, which could lead to an inadequate water supply to fire suppression systems [sprinklers, standpipes, yard hydrants] in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire, which could lead to damage to the building or facility.

Provision: 5.6.1.9.(3)

Objective

OS3

Attributions

[F32-OS3.4]

Intent(s)

Intent 1. To limit the probability that persons will be exposed to unsafe electrical installations, which could lead to harm to persons.

Objective

OS1

Attributions

[F01-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that unsafe electrical installations will start a fire, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 5.6.1.10.(1)

Objective

OS1

Attributions

[F81, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the unwanted release of fuel, which could accumulate in ignitable concentrations, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.6.1.11.(1)

Intent(s)

Intent 1. To expand the application of Subsection 4.3.16. to tanks, piping and machinery reservoirs in buildings or parts of buildings and facilities undergoing demolition, including any incomplete or abandoned buildings.

Provision: 5.6.1.11.(2)

Objective

OS1

Attributions

[F01, F43-OS1.1] [F01-OS1.1]

Intent(s)

Intent 1. For the draining operation, to limit the probability of the unwanted escape of liquids or vapours during demolition operations, which could lead to the ignition of flammable vapours, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. For the removal operation, to limit the probability of the ignition of flammable vapours during demolition operations, which could lead to a fire or explosion, which could lead to harm to persons.

Provision: 5.6.1.11.(3)

Objective

OS1

Attributions

[F01, F81-OS1.1]

Intent(s)

Intent 1. To supersede the requirement in Sentence 5.6.1.11.(2), where it is impracticable to remove drained and purged equipment prior to demolition, but only if measures are taken to:

- limit the probability of damage to the equipment during demolition operations [identification], and
- eliminate the vapour ignition hazard as soon as possible [removal].

Provision: 5.6.1.11.(4)

Objective

OS1

Attributions

[F01, F43-OS1.1]

Intent(s)

Intent 1. To limit the probability of the unwanted escape of liquid or vapour during demolition operations, which could lead to the ignition of flammable vapours, which could lead to a fire or explosion, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 5.6.1.12.(1)

Objective

OS1

Attributions

[F03-OS1.2]

Intent(s)

Intent 1. To limit the probability that a fire will spread from parts of the building being constructed or demolished to parts that remain occupied, which could lead to harm to persons.

Intent 2. To limit the probability that a fire will spread from parts of the building that remain occupied to parts being constructed or demolished, which could lead to harm to persons.

Objective

OP1

Attributions

[F03-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire will spread from parts of the building being constructed or demolished to parts that remain occupied, which could lead to damage to the building or facility.

Intent 2. To limit the probability that a fire will spread from parts of the building that remain occupied to parts being constructed or demolished, which could lead to damage to the building or facility.

Provision: 5.6.1.13.(1)

Objective

OS1

Attributions

[F12, F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that fire protection systems will be ineffective in suppressing or controlling a fire, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Objective

OP1

Attributions

[F12, F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire protection systems will be ineffective in suppressing or controlling a fire, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent 1. To limit the probability that fire protection systems will not operate as intended in a fire situation, which could lead to the spread of fire, which could lead to damage to adjacent buildings or facilities.

Provision: 5.6.1.13.(2)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that the level of fire protection originally intended will be reduced in a fire situation, which could lead to the spread of fire, which could lead to damage to the building or facility.

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent 1. To limit the probability that the level of fire protection originally intended will be reduced in a fire situation, which could lead to the spread of fire, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F02-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that the level of fire protection originally intended will be reduced in a fire situation, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or
- the spread of fire.

This is to limit the probability of harm to persons.

Intent(s)

Intent 1. To direct Code users to Article 6.1.1.4.

Intent Statements: NFC 2010

Provision: 5.6.1.14.(1)

Objective

OS1

Attributions

[F02-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability of a fire in the part of the building being demolished, which could lead to:

- delays in the safe egress of building occupants, or
- the spread of fire to occupied parts of the building.

This is to limit the probability of harm to persons.

Provision: 5.6.1.14.(2)

Objective

OS1

Attributions

[F02-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability of a fire in the part of the building under construction or alteration, which could lead to:

- delays in the safe egress of building occupants, or
- the spread of fire to occupied parts of the building.

This is to limit the probability of harm to persons.

Provision: 5.6.1.14.(3)

Objective

OS1

Attributions

[F13-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability of delays in notifying building occupants and the fire department in the event of a fire emergency, which could lead to:

- delays in firefighting operations,
- delays in the safe egress of building occupants, or
- the spread of fire to occupied parts of the building.

This is to limit the probability of harm to persons.

Provision: 5.6.1.15.(1)

Objective

OS1

Attributions

[F01-OS1.1]

Intent(s)

Intent 1. To limit the probability that ignition sources associated with the activity of smoking will ignite combustible materials, dusts, vapours or gases, which could lead to harm to persons.

Provision: 5.6.1.16.(1)

Objective

OS3

Attributions

[F10, F82-OS3.7]

Intent(s)

Intent 1. To limit the probability that persons will be delayed in evacuating or in moving to a safe place in an emergency situation, which could lead to harm to persons.

Provision: 5.6.1.16.(2)

Objective

OS3

Attributions

[F10, F82-OS3.7]

Intent(s)

Intent 1. To limit the probability that persons will be delayed in evacuating or in moving to a safe place in an emergency situation, which could lead to harm to persons.

Provision: 5.6.1.17.(1)

Objective

OS1

Attributions

[F11-OS1.5]

Intent(s)

Intent 1. To limit the probability that persons will not be promptly notified of a fire situation, which could lead to persons being delayed in evacuating or in moving to a safe place, which could lead to harm to persons.

Provision: 5.6.1.18.(1)

Intent(s)

Intent 1. To direct Code users to Part 4.

Provision: 5.6.1.18.(2)

Intent(s)

Intent 1. To direct Code users to Part 3.

Intent Statements: NFC 2010

Provision: 5.6.1.18.(3)

Intent(s)

Intent 1. To direct Code users to Part 5.

Provision: 5.6.1.19.(1)

Objective

OS1

Attributions

[F01-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that fabrics and films used to temporarily enclose buildings will be ignited by ignition sources [e.g. heaters], which could lead to the spread of fire, which could lead to harm to persons.

Provision: 5.6.1.20.(1)

Objective

OS1

Attributions

[F02-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability of a fire involving combustible refuse, which could lead to harm to persons.

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that a fire involving combustible refuse will spread to other parts of the building, which could lead to damage to the building or facility.

Provision: 5.6.2.1.(1)

Objective

OS1

Attributions

[F01, F43, F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that building services [e.g. gas, electrical and heating installations] will be damaged during excavation, which could lead to the start or spread of fire, which could lead to harm to persons.

Intent 2. To limit the probability that open valves will lead to the accidental release of liquid or vapour [e.g. from gas or fuel lines], which could lead to the accumulation and subsequent ignition of vapour, which could lead to the start or spread of fire, which could lead to harm to persons.

Intent 3. To limit the probability that the type of service will not be readily identified, which could lead to the misuse of the services [e.g. the unwanted opening of a valve and release of liquid or vapour], which could lead to the start or spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F01, F43, F81-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that building services [e.g. gas, electrical and heating installations] will be damaged during excavation, which could lead to the start or spread of fire, which could lead to damage to the building or facility.

Intent 2. To limit the probability that open valves will lead to the accidental release of liquid or vapour [e.g. from gas or fuel lines], which could lead to the accumulation and subsequent ignition of vapour, which could lead to the start or spread of fire, which could lead to damage to the building or facility.

Intent 3. To limit the probability that the type of service will not be readily identified, which could lead to the misuse of the services [e.g. the unwanted opening of a valve and release of liquid or vapour], which could lead to the start or spread of fire, which could lead to damage to the building or facility.

Objective

OS3

Attributions

[F32-OS3.3]

Intent(s)

Intent 1. To limit the probability that during excavation at sites where buildings or parts of buildings and facilities are undergoing demolition, including any incomplete or abandoned buildings, energized equipment will be damaged, which could lead to safety hazards [e.g. electrocution], which could lead to harm to persons.

Provision: 5.6.2.1.(2)

Objective

OS1

Attributions

[F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To limit the probability that services will be shut off or disconnected in an unsafe manner, which could lead to a fire or explosion, which could lead to harm to persons.

Intent 2. To limit the probability that services that are to be maintained will be physically damaged [e.g. damage to fuel lines causing an unwanted leak], which could lead to a fire or explosion, which could lead to harm to persons.

Intent 3. To limit the probability that water services that are to be maintained will be physically damaged, which could lead to an inadequate water supply to fire suppression systems [sprinklers, standpipes,

Intent Statements: NFC 2010

yard hydrants] in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F81-OP1.1, OP1.2]

Intent(s)

Intent 1. To limit the probability that services will be shut off or disconnected in an unsafe manner, which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 2. To limit the probability that services that are to be maintained will be physically damaged [e.g. damage to fuel lines causing an unwanted leak], which could lead to a fire or explosion, which could lead to damage to the building or facility.

Intent 3. To limit the probability that water services that are to be maintained will be physically damaged, which could lead to an inadequate water supply to fire suppression systems [sprinklers, standpipes, yard hydrants] in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire, which could lead to damage to the building or facility.

Provision: 5.6.2.2.(1)

Objective

OS1

Attributions

[F81-OS1.1, OS1.2]

Intent(s)

Intent 1. To exempt certain services from the application of Sentence 5.6.2.1.(1), which would otherwise require that services be shut off or disconnected, if certain measures are taken, on the basis that these services are needed during excavation.

This [the measures] is to limit the probability that:

- services will be operated in an unsafe manner, which could lead to a fire or explosion, which could lead to harm to persons,
- services will be physically damaged [e.g. damage to fuel lines causing an unwanted leak], which could lead to a fire or explosion, which could lead to harm to persons,
- supporting structure for the services will fail, which could lead to damage to the services [e.g. fuel pipe failure or exposure of electrical lines], which could lead to a fire or explosion, which could lead to harm to persons, and
- water services will be physically damaged, which could lead to an inadequate water supply to fire suppression systems [sprinklers, standpipes, yard hydrants] in a fire situation, which could lead to the fire not being suppressed or controlled, which could lead to the spread of fire, which could lead to harm to persons.

Provision: 6.1.1.1.(1)

Intent(s)

Intent 1. To state the application of Part 6.

Provision: 6.1.1.2.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire protection installations will not be maintained at the level of fire protection originally intended, which could lead to the fire protection installations not operating properly in a fire situation, which could lead to the spread of fire, which could lead to damage to the building or facility.

Objective

OP3

Attributions

[F82-OP3.1]

Intent(s)

Intent 1. To limit the probability that fire protection installations will not be maintained at the level of fire protection originally intended, which could lead to the fire protection installations not operating properly in a fire situation, which could lead to the spread of fire, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that fire protection installations will not be maintained at the level of fire protection originally intended, which could lead to the fire protection installations not operating properly in a fire situation, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or
- the spread of fire.

This is to limit the probability of harm to persons.

Provision: 6.1.1.3.(1)

Objective

OP1

Attributions

[F11, F13-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders, building occupants and other persons concerned will not be apprised of interruptions in the operation of fire protection installations, which could lead to delays or inefficiencies in response to a fire situation, which could lead to the spread of fire, which could lead to damage to the building.

Intent Statements: NFC 2010

Objective

OP3

Attributions

[F11, F13-OP3.1]

Intent(s)

Intent 1. To limit the probability that emergency responders, building occupants and other persons concerned will not be apprised of interruptions in the operation of fire protection installations, which could lead to delays or inefficiencies in response to a fire situation, which could lead to the spread of fire, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F11, F13-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that emergency responders, building occupants and other persons concerned will not be apprised of interruptions in the operation of fire protection installations, which could lead to delays or inefficiencies in response to a fire situation, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or
- the spread of fire.

This is to limit the probability of harm to persons, including emergency responders.

Provision: 6.1.1.4.(1)

Objective

OP1

Attributions

[F02-OP1.2]

Intent(s)

Intent 1. To limit the probability that the level of fire protection originally intended will be reduced in a fire situation, which could lead to the spread of fire, which could lead to damage to the building or facility.

Objective

OP3

Attributions

[F02-OP3.1]

Intent(s)

Intent 1. To limit the probability that the level of fire protection originally intended will be reduced in a fire situation, which could lead to the spread of fire, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F02-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that the level of fire protection originally intended will be reduced in a fire situation, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or
- the spread of fire.

This is to limit the probability of harm to persons.

Provision: 6.2.1.1.(1)

Objective

OS3

Attributions

[F82-OS3.1, OS3.2, OS3.3, OS3.4]

Intent(s)

Intent 1. To limit the probability that deficiencies in portable extinguishers will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to a safety hazard, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in portable extinguishers will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to portable extinguishers not operating properly when used in a fire situation, which could lead to the inability of the extinguishers to control or suppress a fire, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Intent 2. To limit the probability that portable extinguishers will not be maintained at the level of performance originally intended, which could lead to the portable extinguishers not operating properly when used in a fire situation, which could lead to the extinguishers being ineffective in controlling or suppressing a fire, which could lead to the spread of fire beyond the point of origin, which could lead to damage to the building or facility.

Objective

OS1

Attributions

[F82-OS1.2]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that deficiencies in portable extinguishers will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to portable extinguishers not operating properly when used in a fire situation, which could lead to the inability of the extinguishers to control or suppress a fire, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Intent 2. To limit the probability that portable extinguishers will not be maintained at the level of performance originally intended, which could lead to the portable extinguishers not operating properly when used in a fire situation, which could lead to the extinguishers being ineffective in controlling or suppressing a fire, which could lead to the spread of fire beyond the point of origin, which could lead to harm to persons.

Provision: 6.3.1.1.(1)

Objective

OS1

Attributions

[F02, F12-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability that fire alarm and voice communication systems will not be maintained at the level of performance originally intended, which could lead to the failure or improper operation of such systems in a fire situation, which could lead to the inability of the systems to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent 2. To limit the probability that fire alarm and voice communication systems will not be maintained at the level of performance originally intended, which could lead to the failure or improper operation of such systems in a fire situation, which could lead to the inability of the systems to promptly notify or communicate with emergency responders, which could lead to delays or inefficiencies in carrying out fire emergency response operations, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or
- the spread of fire.

This is to limit the probability of harm to persons.

Provision: 6.3.1.2.(1)

Objective

OS1

Attributions

[F82-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability that fire alarm systems will not operate as originally intended in a fire situation, which could lead to the inability of the systems to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent 2. To limit the probability that fire alarm systems [designed to notify the fire department] will not operate as originally intended in a fire situation, which could lead to the inability of the systems to promptly notify emergency responders, which could lead to delays in carrying out fire emergency response operations, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or
- the spread of fire.

This is to limit the probability of harm to persons.

Provision: 6.3.1.2.(2)

Objective

OS1

Attributions

[F82-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in fire alarm and detection system components will go unnoticed and will not be corrected, which could lead to the improper operation of the system in a fire situation, which could lead to the inability of the system to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent 2. To limit the probability that deficiencies in fire alarm and detection system components [that are part of a fire alarm system designed to notify the fire department] will go unnoticed and will not be corrected, which could lead to the system not operating properly in a fire situation, which could lead to the inability of the system to promptly notify emergency responders, which could lead to delays in carrying out fire emergency response operations, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or
- the spread of fire.

This is to limit the probability of harm to persons.

Provision: 6.3.1.3.(1)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that proprietary signalling systems will not be maintained at the level of performance originally intended, which could lead to the improper operation of such systems in a fire situation, which could lead to the inability of the systems to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent 2. To limit the probability that proprietary signalling systems will not be maintained at the level of performance originally intended, which could lead to the systems not operating properly in a fire situation, which could lead to the inability of the systems to promptly notify emergency responders, which could lead to delays in carrying out fire emergency response operations, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or
- the spread of fire.

This is to limit the probability of harm to persons.

Intent Statements: NFC 2010

Provision: 6.3.1.4.(1)

Intent(s)

Intent 1. To expand the application of Sentence 6.3.1.2.(1).

Provision: 6.3.1.4.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in the systems will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to the systems not operating as originally intended in a fire situation, which could lead to the inability of the system to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent 2. To limit the probability that deficiencies in the system will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to the system not operating as originally intended in a fire situation, which could lead to the inability of the system to promptly notify or communicate with emergency responders, which could lead to delays or inefficiencies in carrying out fire emergency response operations, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or
- the spread of fire.

This is to limit the probability of harm to persons.

Intent 3. To direct Code users to Sentences 6.3.1.4.(3) and 6.3.1.4.(4).

Provision: 6.3.1.4.(3)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in the system [with respect to the audibility of loudspeakers] will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to the loudspeakers not being heard in all or certain parts of the building, which could lead to the inability of the system to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent 2. To limit the probability that deficiencies in the system [with respect to the audibility of loudspeakers] will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to the loudspeakers not being heard in all or certain parts of the building, which could lead to the inability of the system to promptly notify or communicate with emergency responders, which could lead to delays or inefficiencies in carrying out fire emergency response operations, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or

- the spread of fire.

This is to limit the probability of harm to persons.

Provision: 6.3.1.4.(4)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in the system [with respect to the 2-way communication from each floor area to the central alarm and control facility] will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to the inability of the system to promptly notify or communicate with emergency responders, which could lead to delays or inefficiencies in carrying out fire emergency response operations, which could lead to:

- delays in the evacuation or movement of persons to a safe place, or
- the spread of fire.

This is to limit the probability of harm to persons.

Provision: 6.4.1.1.(1)

Objective

OS1

Attributions

[F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in water-based fire protection systems will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to water-based fire protection systems not operating properly when used in a fire situation, which could lead to the inability of such systems to control or suppress a fire, which could lead to the spread of fire, which could lead to harm to persons.

Intent 2. To limit the probability that water-based fire protection systems will not be maintained at the level of performance originally intended, which could lead to water-based fire protection systems not operating properly when used in a fire situation, which could lead to such systems being ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in water-based fire protection systems will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to water-based fire protection systems not operating properly when used in a fire situation, which could lead

Intent Statements: NFC 2010

to the inability of such systems to control or suppress a fire, which could lead to the spread of fire, which could lead to damage to the building.

Intent 2. To limit the probability that water-based fire protection systems will not be maintained at the level of performance originally intended, which could lead to water-based fire protection systems not operating properly when used in a fire situation, which could lead to such systems being ineffective in controlling or suppressing a fire, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS3

Attributions

[F82-OS3.1, OS3.2, OS3.3, OS3.4]

Intent(s)

Intent 1. To limit the probability that water-based fire protection systems will not operate as originally intended, which could lead to a safety hazard, which could lead to harm to persons.

Provision: 6.5.1.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency power systems will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to emergency power systems not operating as originally intended when there is a loss of normal power in a fire situation, which could lead to the inability of the emergency power systems to supply fire protection systems, which could lead to the inability of:

- sprinkler, standpipe and hose systems, and other fire suppression systems [that rely on booster or fire pumps, or electrical power] to control or suppress a fire, which could lead to the spread of fire, and
- smoke management systems to control smoke conditions as originally intended, which could lead to the migration of smoke from one floor area or fire compartment to other parts of the building.

This is to limit the probability of damage to the building.

Objective

OP3

Attributions

[F82-OP3.1]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency power systems will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to emergency power systems not operating as originally intended when there is a loss of normal power in a fire situation, which could lead to the inability of the emergency power systems to supply fire protection systems, which could lead to the inability of water supply and fire protection systems [that rely on

booster or fire pumps, or electrical power] to control or suppress a fire, which could lead to the spread of fire, which could lead to damage to adjacent buildings or facilities.

Objective

OS3

Attributions

[F82-OS3.1, OS3.7]

Intent(s)

Intent 1. To limit the probability that emergency power systems will not operate as originally intended when there is a loss of normal power, which could lead to the inability of the emergency power systems to supply emergency lighting systems to illuminate floor areas and egress routes, which could lead to safety hazards [such as bumping, tripping, falling, etc.], which could lead to harm to persons.

Intent 2. To limit the probability that deficiencies in emergency power systems will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to emergency power systems not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the emergency power systems to supply emergency systems, which could lead to the inability of:

- fire alarm or voice communication systems to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place,
- emergency lighting systems to illuminate egress routes, which could lead to delays in the evacuation or movement of persons to a safe place,
- smoke management systems to control smoke conditions as originally intended, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place, and
- elevator systems to be used in emergency response operations, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place.

This is to limit the probability of harm to persons.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency power systems will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to emergency power systems not operating as originally intended when there is a loss of normal power in a fire situation, which could lead to the inability of the emergency power systems to supply fire protection systems, which could lead to the inability of:

- fire alarm or voice communication systems to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place,
- sprinkler, standpipe and hose systems, and other fire suppression systems [that rely on booster or fire pumps, or electrical power] to control or suppress a fire, which could lead to the spread of fire,
- emergency lighting systems to illuminate egress routes, which could lead to delays in the evacuation or movement of persons to a safe place,

Intent Statements: NFC 2010

- smoke management systems to control smoke conditions as originally intended, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place, and
- elevator systems to be used in emergency response operations, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place.

This is to limit the probability of harm to persons.

Provision: 6.5.1.1.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency electrical power supply systems will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to emergency electrical power supply systems not operating as originally intended when there is a loss of normal power in a fire situation, which could lead to the inability of the emergency electrical power supply systems to supply fire protection systems, which could lead to:

- fire alarm or voice communication systems not being able to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place,
- sprinkler, standpipe and hose systems, and other fire suppression systems [that rely on booster or fire pumps, or electrical power] not being able to control or suppress a fire, which could lead to the spread of fire,
- emergency lighting systems not being able to illuminate egress routes, which could lead to delays in the evacuation or movement of persons to a safe place,
- smoke management systems not being able to control smoke conditions as originally intended, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place, and
- elevator systems not being able to be used in emergency response operations, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place.

This is to limit the probability of harm to persons.

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency electrical power supply systems will go unnoticed, which could lead to corrective action on such deficiencies not being taken, which could lead to emergency electrical power supply systems not operating as originally intended when there is a loss of normal power in a fire situation, which could lead to the inability of the emergency electrical power supply systems to supply fire protection systems, which could lead to:

- sprinkler, standpipe and hose systems, and other fire suppression systems [that rely on booster or fire pumps, or electrical power] not being able to control or suppress a fire, which could lead to the spread of fire, and
- smoke management systems not being able to control smoke conditions as originally intended, which could lead to the migration of smoke from one floor area or fire compartment to other parts of the building.

This is to limit the probability of damage to the building.

Provision: 6.5.1.2.(1)

Intent(s)

Intent 1. To state the application of Section 2.8.

Intent 2. To supersede the requirements of Sentence 6.5.1.1.(1).

Provision: 6.5.1.3.(1)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will not be able to [manually] start, or will be delayed in [manually] starting, an emergency power system and to switch on essential loads when there is a failure of the system to start automatically in a fire situation, which could lead to the inability of the emergency power systems to supply fire protection systems, which could lead to the inability of:

- sprinkler, standpipe and hose systems, and other fire suppression systems [that rely on booster or fire pumps, or electrical power] to control or suppress a fire, which could lead to the spread of fire, and
- smoke management systems to control smoke conditions as originally intended, which could lead to the migration of smoke from one floor area or fire compartment to other parts of the building.

This is to limit the probability of damage to the building.

Intent 2. To supersede the requirements of Sentence 6.5.1.1.(1).

Objective

OS1

Attributions

[F12-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that emergency responders will not be able to [manually] start, or will be delayed in [manually] starting, an emergency power system and to switch on essential loads when there is a failure of the system to start automatically in a fire situation, which could lead to the inability of the emergency power systems to supply fire protection systems, which could lead to the inability of:

Intent Statements: NFC 2010

- fire alarm or voice communication systems to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place,
- sprinkler, standpipe and hose systems, and other fire suppression systems [that rely on booster or fire pumps, or electrical power] to control or suppress a fire, which could lead to the spread of fire,
- emergency lighting systems to illuminate egress routes, which could lead to delays in the evacuation or movement of persons to a safe place,
- smoke management systems to control smoke conditions as originally intended, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place, and
- elevator systems to be used in emergency response operations, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place.

This is to limit the probability of harm to persons.

Intent 2. To supersede the requirements of Sentence 6.5.1.1.(1).

Objective

OP3

Attributions

[F12-OP3.1]

Intent(s)

Intent 1. To limit the probability that emergency responders will not be able to [manually] start, or will be delayed in [manually] starting, an emergency power system and to switch on essential loads when there is a failure of the system to start automatically in a fire situation, which could lead to the inability of the emergency power systems to supply fire protection systems, which could lead to the inability of water supply and fire protection systems [that rely on booster or fire pumps, or electrical power] to control or suppress a fire, which could lead to the spread of fire, which could lead to damage to adjacent buildings or facilities.

Intent 2. To supersede the requirements of Sentence 6.5.1.1.(1).

Objective

OS3

Attributions

[F12-OS3.1, OS3.7]

Intent(s)

Intent 1. To limit the probability that emergency responders will not be able to [manually] start, or will be delayed in [manually] starting, an emergency power system and to switch on essential loads when there is a failure of the system to start automatically, which could lead to the inability of the emergency power systems to supply emergency lighting systems to illuminate floor areas and egress routes, which could lead to safety hazards [such as bumping, tripping, falling, etc.], which could lead to harm to persons.

Intent 2. To limit the probability that emergency responders will not be able to [manually] start, or will be delayed in [manually] starting, an emergency power system and to switch on essential loads when there is a failure of the system to start automatically, which could lead to the inability of the emergency power systems to supply emergency systems, which could lead to the inability of:

- fire alarm or voice communication systems to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place,

- emergency lighting systems to illuminate egress routes, which could lead to delays in the evacuation or movement of persons to a safe place,
- smoke management systems to control smoke conditions as originally intended, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place, and
- elevator systems to be used in emergency response operations, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place.

This is to limit the probability of harm to persons.

Intent 3. To supersede the requirements of Sentence 6.5.1.1.(1).

Provision: 6.5.1.4.(1)

Intent(s)

Intent 1. To facilitate determination of compliance with the Code.

Provision: 6.5.1.5.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability of degeneration of, or impurity buildup in, the liquid fuel, which could lead to emergency power systems not operating as originally intended when there is a loss of normal power in a fire situation, which could lead to the inability of the emergency power systems to supply fire protection systems, which could lead to the inability of:

- sprinkler, standpipe and hose systems, and other fire suppression systems [that rely on booster or fire pumps, or electrical power] to control or suppress a fire, which could lead to the spread of fire, and
- smoke management systems to control smoke conditions as originally intended, which could lead to the migration of smoke from one floor area or fire compartment to other parts of the building.

This is to limit the probability of damage to the building.

Intent 2. To supersede the requirements of Sentence 6.5.1.1.(1).

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability of degeneration of, or impurity buildup in, the liquid fuel, which could lead to emergency power systems not operating as originally intended when there is a loss of normal power in a fire situation, which could lead to the inability of the emergency power systems to supply fire protection systems, which could lead to the inability of:

Intent Statements: NFC 2010

- fire alarm or voice communication systems to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place,
- sprinkler, standpipe and hose systems, and other fire suppression systems [that rely on booster or fire pumps, or electrical power] to control or suppress a fire, which could lead to the spread of fire,
- emergency lighting systems to illuminate egress routes, which could lead to delays in the evacuation or movement of persons to a safe place,
- smoke management systems to control smoke conditions as originally intended, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place, and
- elevator systems to be used in emergency response operations, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place.

This is to limit the probability of harm to persons.

Intent 2. To supersede the requirements of Sentence 6.5.1.1.(1).

Objective

OP3

Attributions

[F82-OP3.1]

Intent(s)

Intent 1. To limit the probability of degeneration of, or impurity buildup in, the liquid fuel, which could lead to emergency power systems not operating as originally intended when there is a loss of normal power in a fire situation, which could lead to the inability of the emergency power systems to supply fire protection systems, which could lead to the inability of water supply and fire protection systems [that rely on booster or fire pumps, or electrical power] to control or suppress a fire, which could lead to the spread of fire, which could lead to damage to adjacent buildings or facilities.

Intent 2. To supersede the requirements of Sentence 6.5.1.1.(1).

Objective

OS3

Attributions

[F82-OS3.1, OS3.7]

Intent(s)

Intent 1. To limit the probability of degeneration of, or impurity buildup in, the liquid fuel, which could lead to emergency power systems not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the emergency power systems to supply emergency lighting systems to illuminate floor areas and egress routes, which could lead to safety hazards [such as bumping, tripping, falling, etc.], which could lead to harm to persons.

Intent 2. To limit the probability of degeneration of, or impurity buildup in, the liquid fuel, which could lead to emergency power systems not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the emergency power systems to supply emergency systems, which could lead to the inability of:

- fire alarm or voice communication systems to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place,
- emergency lighting systems to illuminate egress routes, which could lead to delays in the evacuation or movement of persons to a safe place,

- smoke management systems to control smoke conditions as originally intended, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place, and
- elevator systems to be used in emergency response operations, which could lead to delays in emergency response operations, which could lead to delays in the evacuation or movement of persons to a safe place.

This is to limit the probability of harm to persons.

Intent 3. To supersede the requirements of Sentence 6.5.1.1.(1).

Provision: 6.5.1.6.(1)

Objective

OS3

Attributions

[F82-OS3.1, OS3.7]

Intent(s)

Intent 1. To limit the probability that deficiencies in the equipment will go unnoticed and will not be corrected, which could lead to the equipment not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the equipment to illuminate floor areas and egress routes, which could lead to safety hazards [such as bumping, tripping, falling, etc.], which could lead to harm to persons.

Intent 2. To limit the probability that deficiencies in the equipment will go unnoticed and will not be corrected, which could lead to the equipment not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the equipment to illuminate floor areas and egress routes, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 6.5.1.6.(2)

Objective

OS3

Attributions

[F82-OS3.1, OS3.7]

Intent(s)

Intent 1. To limit the probability that deficiencies in the equipment will go unnoticed and will not be corrected, which could lead to the equipment not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the equipment to illuminate floor areas and egress routes, which could lead to safety hazards [such as bumping, tripping, falling, etc.], which could lead to harm to persons.

Intent 2. To limit the probability that deficiencies in the equipment will go unnoticed and will not be corrected, which could lead to the equipment not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the equipment to illuminate floor areas and egress routes, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 6.5.1.6.(3)

Objective

OS3

Attributions

[F82-OS3.1, OS3.7]

Intent(s)

Intent 1. To limit the probability that deficiencies in self-contained emergency lighting units [charging system is not functioning] will go unnoticed and will not be corrected, which could lead to the equipment not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the equipment to illuminate floor areas and egress routes, which could lead to safety hazards [such as bumping, tripping, falling, etc.], which could lead to harm to persons.

Intent 2. To limit the probability that deficiencies in self-contained emergency lighting units [charging system is not functioning] will go unnoticed and will not be corrected, which could lead to the equipment not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the equipment to illuminate floor areas and egress routes, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 6.5.1.7.(1)

Objective

OS3

Attributions

[F82-OS3.1, OS3.7]

Intent(s)

Intent 1. To limit the probability that deficiencies in the emergency lights will go unnoticed and will not be corrected, which could lead to the lights not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the lights to illuminate floor areas and egress routes, which could lead to safety hazards [such as bumping, tripping, falling, etc.], which could lead to harm to persons.

Intent 2. To limit the probability that deficiencies in the emergency lights will go unnoticed and will not be corrected, which could lead to the lights not operating as originally intended when there is a loss of normal power in an emergency situation, which could lead to the inability of the lights to illuminate floor areas and egress routes, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 6.6.1.1.(1)

Objective

OS1

Attributions

[F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that special fire suppression systems will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to harm to persons.

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that special fire suppression systems will not suppress or control a fire, which could lead to the spread of fire to other parts of the building, which could lead to damage to the building.

Provision: 6.7.1.1.(1)

Objective

OS1

Attributions

[F82-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability that smoke alarm systems will not operate in a fire situation as originally intended, which could lead to the inability of the systems to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 6.7.1.1.(2)

Intent(s)

Intent 1. To facilitate determination of compliance with the Code.

Intent 2. To direct Code users to Article 2.2.1.2.

Provision: 6.7.1.1.(3)

Objective

OS1

Attributions

[F82-OS1.5, OS1.2]

Intent(s)

Intent 1. To limit the probability that carbon monoxide detectors will not operate in an emergency situation as originally intended, which could lead to the inability of the detectors to promptly notify persons in the building, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.1.1.1.(1)

Intent Statements: NFC 2010

Intent(s)

Intent 1. To state the application of Part 7.

Provision: 7.1.1.2.(1)

Intent(s)

Intent 1. To direct Code users to Sections 7.2. and 7.3.

Provision: 7.1.1.2.(2)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To exempt certain fire emergency systems from the application of Sentence 7.1.1.2.(1), which would otherwise require conformance with Sections 7.2. and 7.3., on the basis that such systems will be tested to ensure that they operate as intended.

This is to limit the probability that deficiencies in the fire emergency systems will go unnoticed, which could lead to the systems not operating as originally intended in a fire situation, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To exempt certain fire emergency systems from the application of Sentence 7.1.1.2.(1), which would otherwise require conformance with Sections 7.2. and 7.3., on the basis that such systems will be tested to ensure that they operate as intended.

This is to limit the probability that deficiencies in the fire emergency systems will go unnoticed, which could lead to the systems not operating as originally intended in a fire situation, which could lead to harm to persons, including emergency responders.

Provision: 7.1.1.2.(3)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that fire emergency systems will not operate as originally intended in a fire situation, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that fire emergency systems will not operate as originally intended in a fire situation, which could lead to harm to persons, including emergency responders.

Provision: 7.1.1.3.(1)

Intent(s)

Intent 1. To state the application of Article 2.2.1.2.

Provision: 7.1.1.4.(1)

Intent(s)

Intent 1. To direct Code users to Sentences 7.1.1.4.(2) to 7.1.1.4.(5).

Provision: 7.1.1.4.(2)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that emergency responders will not be able to readily locate and utilize elevator keys in a fire situation, which could lead to delays or inefficiencies in emergency response operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F12-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that emergency responders will not be able to readily locate and utilize elevator keys in a fire situation, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays or inefficiencies in emergency rescue operations, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders.

Intent Statements: NFC 2010

Provision: 7.1.1.4.(3)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that venting of floor areas will be delayed in a fire situation, which could lead to the buildup of smoke on floor areas, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that venting of floor areas will be delayed in a fire situation, which could lead to the buildup of smoke on floor areas, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 7.1.1.4.(4)

Objective

OP1

Attributions

[F12-OP1.2]

Intent(s)

Intent 1. To limit the probability that windows and panels for venting will not be readily openable without the use of keys in a fire situation, which could lead to delays in venting of floor areas, which could lead to the buildup of smoke on floor areas, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F12-OS1.2]

Intent(s)

Intent 1. To limit the probability that windows and panels for venting will not be readily openable without the use of keys in a fire situation, which could lead to delays in venting of floor areas, which could lead to the buildup of smoke on floor areas, which could lead to delays or inefficiencies in emergency

suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders.

Provision: 7.1.1.4.(5)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that vents to vestibules will not be readily openable in a fire situation, which could lead to the migration of smoke from an adjacent building to the building, which could lead to damage to the building.

Objective

OP3

Attributions

[F82-OP3.1]

Intent(s)

Intent 1. To limit the probability that vents to vestibules will not be readily openable in a fire situation, which could lead to the migration of smoke from the building to an adjacent building, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that vents to vestibules will not be readily openable in a fire situation, which could lead to the migration of smoke from one building to another building, which could lead to the obscuration of egress and exit routes, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.2.1.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in fire emergency systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building,

Intent Statements: NFC 2010

- the buildup of smoke on floor areas, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- the buildup of smoke on floor areas or in exit stair shafts, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in fire emergency systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders,
- delays or inefficiencies in emergency rescue operations, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders,
- the buildup of smoke on floor areas, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- the buildup of smoke on floor areas or in exit stair shafts, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent(s)

Intent 1. To override the 3-month interval in the latter part of this requirement [Records 01 and 02] for frequency of tests specified in Sections 7.2. and 7.3.

Provision: 7.2.2.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency service features of elevators will go unnoticed, which could lead to such features not operating as originally intended in a fire situation, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency service features of elevators will go unnoticed, which could lead to such features not operating as originally intended in a fire situation, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders,
- delays or inefficiencies in emergency rescue operations, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders, and
- persons being trapped in a stalled elevator car, or elevator entrances opening on the fire floor and exposing the car occupants to fire, which could lead to harm to persons.

Intent(s)

Intent 1. To state the application of Sentence 7.2.2.1.(2).

Provision: 7.2.2.1.(2)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency service features of elevators will go unnoticed, which could lead to such features not operating as originally intended in a fire situation, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency service features of elevators will go unnoticed, which could lead to such features not operating as originally intended in a fire situation, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders,
- delays or inefficiencies in emergency rescue operations, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders, and
- persons being trapped in a stalled elevator car, or elevator entrances opening on the fire floor and exposing the car occupants to fire, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 7.2.2.1.(3)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency power and service features of elevators will go unnoticed, which could lead to such features not operating as originally intended in a fire situation, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in emergency power and service features of elevators will go unnoticed, which could lead to such features not operating as originally intended in a fire situation, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders,
- delays or inefficiencies in emergency rescue operations, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons, including emergency responders, and
- persons being trapped in a stalled elevator car, or elevator entrances opening on the fire floor and exposing the car occupants to fire, which could lead to harm to persons.

Provision: 7.2.3.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in the closures will go unnoticed, which could lead to such closures not opening as originally intended in a fire situation, which could lead to:

- the buildup of smoke on floor areas, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- the buildup of smoke on floor areas or in exit stair shafts, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in the closures will go unnoticed, which could lead to such closures not opening as originally intended in a fire situation, which could lead to:

- the buildup of smoke on floor areas, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- the buildup of smoke on floor areas or in exit stair shafts, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.2.3.1.(2)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in the closures will go unnoticed, which could lead to such closures not opening as originally intended in a fire situation, which could lead to:

- the buildup of smoke on floor areas, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- the buildup of smoke on floor areas or in exit stair shafts, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in the closures will go unnoticed, which could lead to such closures not opening as originally intended in a fire situation, which could lead to:

- the buildup of smoke on floor areas, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- the buildup of smoke on floor areas or in exit stair shafts, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 7.2.3.2.(1)

Objective

OS1

Attributions

[F82-OS1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in the elevators and their recall operation will go unnoticed, which could lead to such elevators not returning to the street floor level and remaining inoperative in a fire situation, which could lead to persons in the elevator cars being exposed to smoke, which could lead to harm to such persons.

Provision: 7.2.3.3.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in controls will go unnoticed, which could lead to the air-handling systems not operating as originally intended in a fire situation, which could lead to:

- the buildup of smoke on floor areas, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- the buildup of smoke on floor areas or in exit stair shafts, which could lead to damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in controls will go unnoticed, which could lead to the air-handling systems not operating as originally intended in a fire situation, which could lead to:

- the buildup of smoke on floor areas, which could lead to delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- the buildup of smoke on floor areas or in exit stair shafts, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.2.4.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in the air moving fans will go unnoticed, which could lead to such fans not operating as originally intended in a fire situation, which could lead to the migration of smoke to other parts of the building, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in the air moving fans will go unnoticed, which could lead to such fans not operating as originally intended in a fire situation, which could lead to the migration of smoke to other parts of the building, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.2.4.2.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in the vestibule doors will go unnoticed, which could lead to such doors not closing as originally intended in a fire situation, which could lead to the migration of smoke to other parts of the building, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in the vestibule doors will go unnoticed, which could lead to such doors not closing as originally intended in a fire situation, which could lead to the migration of smoke to other parts of the building, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and

Intent Statements: NFC 2010

- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.1.1.(1)

Intent(s)

Intent 1. To clarify that test procedures described in Subsections 7.3.2. to 7.3.15. are in addition to those required by Sections 7.1. and 7.2.

Intent 2. To clarify that testing procedures developed as part of the fire safety plan [required by Section 2.8.] supersede the testing procedures specified in Part 7.

Provision: 7.3.1.2.(1)

Intent(s)

Intent 1. To expand the application of Article 2.7.2.1.

Provision: 7.3.2.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.3.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.4.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent Statements: NFC 2010

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.5.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.5.1.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through vestibules will go unnoticed, which could lead to the smoke control system not operating as originally intended in a fire situation, which could lead to the buildup of smoke in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.6.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.6.1.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through vestibules will go unnoticed, which could lead to the smoke control system not operating as originally intended in a fire situation, which could lead to the buildup of smoke in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 7.3.7.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.7.1.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through stair and elevator shafts will go unnoticed, which could lead to the smoke control systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke in exit stair shafts or elevator shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.8.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.8.1.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through stair and elevator shafts will go unnoticed, which could lead to the smoke control systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke in exit stair shafts or elevator shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 7.3.9.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.9.1.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through vestibules will go unnoticed, which could lead to the smoke control system not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.10.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.10.1.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through building cores will go unnoticed, which could lead to the smoke control system not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 7.3.11.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.11.1.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through building cores will go unnoticed, which could lead to the smoke control system not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.12.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.12.1.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through vestibules will go unnoticed, which could lead to the smoke control system not operating as originally intended in a fire situation, which could lead to the buildup of smoke in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Intent Statements: NFC 2010

Provision: 7.3.13.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.13.1.(2)

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through vestibules and areas of refuge will go unnoticed, which could lead to the smoke control systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke in refuge areas or exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.14.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to damage to the building, and
- damage to the building.

Objective

OS1

Attributions

[F82-OS1.2, OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the buildup of smoke on floor areas or in exit stair shafts, which could lead to:

- delays or inefficiencies in emergency suppression operations, which could lead to the spread of fire, which could lead to harm to persons, including emergency responders, and
- delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.15.1.(1)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the migration of smoke from an adjacent building to the building, which could lead to damage to the building.

Objective

OP3

Attributions

[F82-OP3.1]

Intent(s)

Intent Statements: NFC 2010

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the migration of smoke from the building to an adjacent building, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F82-OS1.5]

Intent(s)

Intent 1. To limit the probability that deficiencies in certain fire emergency and smoke control systems will go unnoticed, which could lead to such systems not operating as originally intended in a fire situation, which could lead to the migration of smoke from one building to another building, which could lead to the obscuration of egress and exit routes, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.

Provision: 7.3.15.1.(2)

Objective

OP1

Attributions

[F82-OP1.2]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through vestibules will go unnoticed, which could lead to the smoke control system not operating as originally intended in a fire situation, which could lead to the migration of smoke from an adjacent building to the building, which could lead to damage to the building.

Objective

OP3

Attributions

[F82-OP3.1]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through vestibules will go unnoticed, which could lead to the smoke control system not operating as originally intended in a fire situation, which could lead to the migration of smoke from the building to an adjacent building, which could lead to damage to adjacent buildings or facilities.

Objective

OS1

Attributions

[F82-OS1.5]

Intent(s)

Intent 1. To limit the probability that inadequate air movement through vestibules will go unnoticed, which could lead to the smoke control system not operating as originally intended in a fire situation, which could lead to the migration of smoke from one building to another building, which could lead to the

Intent Statements: NFC 2010

obscuration of egress and exit routes, which could lead to delays in the evacuation or movement of persons to a safe place, which could lead to harm to persons.