

PROVINCE OF BRITISH COLUMBIA
REGULATION OF THE MINISTER OF FORESTS AND RANGE AND
MINISTER RESPONSIBLE FOR HOUSING

Fire Services Act

Ministerial Order No. **M 137**

I, Rich Coleman, Minister of Forests and Range and Minister Responsible for Housing, order that, effective December 15, 2006,

- (a) *the British Columbia Fire Code Regulation, B.C. Reg. 318/2003 is repealed, and*
- (b) *the National Fire Code of Canada 2005 is adopted as the British Columbia Fire Code with the amendments set out in the attached Schedule.*

June 19/06

Date



Minister of Forests and Range and
Minister Responsible for Housing

(This part is for administrative purposes only and is not part of the Order.)

Authority under which Order is made:

Act and section:- *Fire Services Act, R.S.B.C. 1996, c. 144, s. 47 (2)*

Other (specify):- *M335/2003*

June 7, 2006

425/2006/27

SCHEDULE

Division A		
	Code Reference	Amendments
1	1.2.1.1.(1)	<p>Replace with the following:</p> <p>1) Compliance with this Code shall be achieved by</p> <p style="padding-left: 40px;">a) complying with the applicable acceptable solutions in Division B (see Appendix A), or</p> <p style="padding-left: 40px;">b) when acceptable to the <i>authority having jurisdiction</i>, using alternative solutions that will achieve at least the minimum level of performance required by Division B in areas defined by the objectives and functional statements attributed to the acceptable solutions. (see Appendix A)</p>
2	1.3.3.2.(1)	<p>Replace with the following:</p> <p>1) Part 7 of Division B applies to high buildings as defined in the British Columbia Building Code.</p>
3	1.4.1.2.(1)	<p>Insert the following defined terms:</p> <p><i>Act</i> means the Fire Services Act.</p> <p><i>Community care facilities</i> means <i>community care facilities</i> as defined in the Community Care and Assisted Living Act.</p> <p><i>Electrical service room</i> means a room or space provided in a <i>building</i> to accommodate building electrical service equipment and constructed in accordance with the British Columbia Building Code</p> <p><i>Electrical equipment vault</i> means an isolated enclosure, either above or below ground, with fire resisting walls, ceilings and floors for the purpose of housing transformers and other electrical equipment.</p> <p><i>Fire detector</i> means a device which detects a fire condition and automatically initiates an electrical signal to actuate an <i>alert signal</i> or an <i>alarm signal</i>, and includes <i>heat detectors</i> and <i>smoke detectors</i>.</p> <p><i>Heat detector</i> means a <i>fire detector</i> designed to operate at a pre-determined temperature or rate of temperature rise.</p> <p><i>Inspector</i> means an inspector with the Office of the Fire Commissioner.</p>

		<p><i>Order</i> includes a remedial action, an approval, a decision, a determination, a permit and the exercise of discretion under this Code.</p> <p><i>Public corridor</i> means a corridor that provides <i>access to exit</i> from more than one <i>suite</i>. (See Appendix A.)</p> <p><i>Smoke detector</i> means a <i>fire detector</i> designed to operate when the concentration of airborne combustion products exceeds a pre-determined level.</p>
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4	1.4.1.2.(1)	Replace existing defined terms with the following:
		<p><i>Authority having jurisdiction</i> means the fire commissioner, <i>inspectors</i>, and local assistants to the fire commissioner.</p> <p><i>Fire-protection rating</i> means the time in hours or fraction thereof that a <i>closure</i> will withstand the passage of flame when exposed to fire under specified conditions of test and performance criteria, or as otherwise prescribed in the British Columbia Building Code.</p> <p><i>Fire-resistance rating</i> means the time in hours or fraction thereof 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 British Columbia Building Code.</p> <p><i>Flame-spread rating</i> 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 British Columbia Building Code.</p>

Division B

5	Table 1.3.1.2.	Delete the following Referenced Documents from Table 1.3.1.2.:			
		Issuing Agency	Document Number	Title of Document	Code Reference
		CSA	B44-00	Safety Code for Elevators	7.2.2.1.(2)
		CSA	B51-03	Boiler, Pressure Vessel, and Pressure Piping Code	4.3.1.3.(2)
		CSA	CAN/CSA-B149.1-00	Natural Gas and Propane Installation Code	3.1.1.4.(2) 3.1.1.4.(3) 4.6.1.1.(2) 5.6.1.12.(1)
CSA	CAN/CSA-B149.2-00	Propane Storage and Handling Code	3.1.1.4.(2) 3.2.8.2.(3) 4.6.1.1.(2)		

		CSA	C22.1-02	Canadian Electrical Code, Part 1	3.1.4.1.(1) 4.1.4.1.(1) 4.1.4.1.(2) 5.1.2.1.(1) 5.1.2.2.(1) 5.3.1.2.(2) 5.3.1.2.(3) 5.3.1.10.(2) 5.5.3.4.(1) 5.6.1.10.(2)
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6	Table 1.3.1.2.	Replace the following Referenced Document:			
		Issuing Agency	Document Number	Title of Document	Code Reference
		ULC	ULC/ORD-C107.4-1992	Ducted Flexible Underground Piping Systems for Flammable and Combustible Liquids	4.5.2.1.(3) 4.5.6.13.(2)
		With the following Referenced Document:			
		Issuing Agency	Document Number	Title of Document	Code Reference
		ULC	ULC/ORD-C971-2005	Nonmetallic Underground Piping for Flammable and Combustible Liquids	4.5.2.1.(3) 4.5.6.13.(2)

7	Table 1.3.1.2.	Insert the following Referenced Documents:			
		Issuing Agency	Document Number	Title of Document	Code Reference
		NFPA	170-94	Standard for Fire Safety Symbols	2.8.2.7.(5)
		NFPA	303-00	Fire Protection Standard for Marinas and Boatyards	2.15.1.1.(1))

8	2.1.2.1.(1)	Replace with the following: 1) For the purpose of applying this Code, every <i>building</i> or part thereof shall be classified according to its <i>major occupancy</i> in conformance with the British Columbia Building Code. (See Appendix A.)
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9	2.1.3.1.(1)	Replace with the following: 1) Fire alarm, standpipe and sprinkler systems shall be provided in all <i>buildings</i> where required by and in conformance with the British Columbia Building Code. (See Appendix A.)
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10	2.1.3.2.(1)	<p>Replace with the following:</p> <p>1) A voice communication system or systems integrated with the general fire alarm system shall be provided in <i>buildings</i> as specified in Subsection 3.2.6. of the British Columbia Building Code.</p>
11	2.1.3.3.	<p>Replace with the following:</p> <p>1) <i>Smoke alarms</i> conforming to CAN/ULC-S531 “Smoke Alarms,” shall be provided in all hotels and public <i>buildings</i> as defined in the <i>Act</i>, where required by and in conformance with the British Columbia Building Code.</p> <p>2) <i>Smoke alarms</i> may be battery operated where permitted by the <i>authority having jurisdiction</i>.</p> <p>3) <i>Smoke alarms</i> shall be installed in conformance with CAN/ULC-S533, “Installation of Smoke Alarms.”</p>
12	2.1.3.4.(1)	<p>Replace with the following:</p> <p>1) Materials installed to protect combustible sprinkler piping, as is required by the British Columbia Building Code, shall be maintained in accordance with the provisions of the same edition of the British Columbia Building Code used for their installation. (See Appendix A.)</p>
13	2.1.3.6.(1)	<p>Replace with the following:</p> <p>1) Except as otherwise provided in this Code, an automatic sprinkler system required by this Code shall be designed and installed in conformance with the British Columbia Building Code. (See Appendix A.)</p>
14	2.2.1.1.(1)	<p>Replace with the following:</p> <p>1) Where a <i>building</i> contains more than one major occupancy, such occupancies shall be separated from each other in conformance with the British Columbia Building Code.</p>
15	2.2.1.1.(2)	<p>Replace with the following:</p> <p>2) Where rooms or spaces within a <i>building</i> contain a <i>high hazard industrial occupancy</i>, such <i>occupancy</i> shall be separated from the remainder of the <i>building</i> by <i>fire separations</i> in conformance with this Code and the British Columbia Building Code.</p>
16	2.2.1.1.(3)	<p>Replace with the following:</p> <p>3) Rooms, corridors, shafts and other spaces shall be separated where practicable by <i>fire separations</i> conforming to the British Columbia Building Code.</p>

17	2.2.2.1.(1) and (2)	<p>Replace with the following:</p> <ol style="list-style-type: none"> 1) Openings in <i>fire separations</i> shall be protected with <i>closures</i> in conformance with the British Columbia Building Code. 2) Where <i>closures</i> in fire separations are replaced, the replacements shall be in conformance with the British Columbia Building Code.
18	2.2.2.4.(2)	<p>Replace with the following:</p> <ol style="list-style-type: none"> 2) Doors in <i>fire separations</i> shall be inspected at intervals not greater than 24 h to ensure that they remain closed unless the door is equipped with a hold-open device conforming to the British Columbia Building Code.
19	2.2.2.5.	<p>Insert the following:</p> <p>2.2.2.5. Fire Door Signs</p> <ol style="list-style-type: none"> 1) Every door used as a <i>closure</i> with a required <i>fire protection rating</i> shall have a permanent sign acceptable to the <i>authority having jurisdiction</i>, posted on the visible side of the door when it is in the open position, with the words "FIRE DOOR KEEP CLOSED" except where the door is <ol style="list-style-type: none"> a) located between a <i>corridor</i> and an adjacent sleeping room in hospitals or nursing homes, b) located between a corridor and an adjacent classroom, c) located between a <i>public corridor</i> and a <i>suite</i> of Group C or D <i>occupancy</i>, or d) fitted with an acceptable hold-open device designed to be released by a signal from a <i>fire detector</i>, fire alarm system or sprinkler system. (See Appendix A.)
20	2.3.1.1.(1)	<p>Replace with the following:</p> <ol style="list-style-type: none"> 1) The interior finish material that forms part of the interior surface of a floor, wall, partition or ceiling shall conform to the British Columbia Building Code.
21	2.3.1.4.(1)	<p>Replace with the following:</p> <ol style="list-style-type: none"> 1) Combustible contents in <i>interconnected floor spaces</i> in which the ceiling is more than 8 m above the floor, shall not exceed the limit specified in Subsection 3.2.8. of the British Columbia Building Code.
22	2.3.1.5.	<p>Insert the following:</p> <p>2.3.1.5. Combustible Materials Within Classrooms</p> <ol style="list-style-type: none"> 1) Combustible materials such as teaching aids, notices and pupil work attached

		to walls or ceilings in school classrooms shall not exceed 20% of the area of such walls or ceilings.
23	2.4.1.2.(1)	<p>Replace with the following:</p> <p>1) Where rooms are provided for the storage of combustible waste materials, such rooms shall conform to the British Columbia Building Code.</p>
24	2.5.1.1.(1)	<p>Replace with the following:</p> <p>1) Fire department vehicles shall have direct access to at least one face of every <i>building</i> by means of a <i>street</i>, yard or roadway in conformance with the British Columbia Building Code.</p>
25	2.6.1.1.(1)	<p>Replace with the following:</p> <p>1) Fireplaces, solid fuel burning equipment, <i>chimneys</i>, <i>flue pipes</i>, heating, ventilating and air-conditioning <i>appliances</i> and equipment shall be constructed and installed in conformance with the British Columbia Building Code.</p>
26	2.6.1.5.(1)	<p>Replace with the following:</p> <p>1) Required clearances between <i>chimneys</i>, <i>flue pipes</i> or <i>appliance</i> and <i>combustible construction</i> shall be maintained in conformance with the British Columbia Building Code.</p>
27	2.6.1.9.(1)	<p>Replace with the following:</p> <p>1) Commercial cooking equipment exhaust and fire protection systems shall be designed and installed in conformance with the British Columbia Building Code.</p>
28	2.6.2.1.(1)	<p>Replace with the following:</p> <p>1) The installation and alteration of indoor incinerators shall conform to the British Columbia Building Code.</p>
29	2.6.3.	<p>Replace with the following:</p> <p>2.6.3. Electrical Services</p> <p>2.6.3.1. Use</p> <p>1) Storage may be permitted in <i>electrical service rooms</i> in conformance with the British Columbia Safety Standards Act and pursuant regulations.</p> <p>2) <i>Electrical equipment vaults</i> shall not be used for storage purposes.</p> <p>2.6.3.2. Security</p> <p>1) <i>Electrical equipment vaults</i> and <i>electrical service rooms</i> shall be kept locked so that unauthorized persons will not have access to them.</p>

30	2.7.1.1.(1)	<p>Replace with the following:</p> <p>1) <i>Means of egress</i> shall be provided in <i>buildings</i> in conformance with the British Columbia Building Code.</p>
31	2.7.1.2.(1)	<p>Replace with the following:</p> <p>1) Aisles in conformance with Sentences (2) to (4) shall be provided in every <i>floor area</i> that</p> <ul style="list-style-type: none"> a) is not subdivided into rooms or <i>suites</i> served by corridors giving <i>access to exits</i>, and b) is required by the British Columbia Building Code to have more than one egress doorway.
32	2.7.1.4.(2)	<p>Replace with the following:</p> <p>2) Signs required by the British Columbia Building Code to indicate the <i>occupant load</i> for a <i>floor area</i> shall be posted in conspicuous locations near the principal entrances to the <i>floor area</i>. (See Appendix A.)</p>
33	2.7.3.1.(1)	<p>Replace with the following:</p> <p>1) <i>Exit</i> lighting, <i>exit</i> signs and emergency lighting shall be provided in <i>buildings</i> in conformance with the British Columbia Building Code. (See Appendix A.)</p>
34	2.8.1.1.(1)(b)	<p>Replace with the following:</p> <p>b) every <i>building</i> required by the British Columbia Building Code to have a fire alarm system,</p>
35	2.8.2.4.(1)	<p>Replace with the following:</p> <p>1) In <i>buildings</i> within the scope of Subsection 3.2.6. of the British Columbia Building Code, the fire safety plan shall, in addition to the requirements of Sentence 2.8.2.1.(1), include</p> <ul style="list-style-type: none"> a) the training of supervisory staff in the use of the voice communication system, b) the procedures for the use of elevators, c) the action to be taken by supervisory staff in initiating any smoke control or other fire emergency systems installed in a building in the event of fire until the fire department arrives, d) instructions to the supervisory staff and fire department for the operation of the systems referred to in Clause (c), and e) the procedures established to facilitate fire department access to the building and fire location within the <i>building</i>.
36	2.8.2.5.(2)	<p>Replace with the following:</p>

		2) The fire safety plan for a <i>building</i> within the scope of Subsection 3.2.6. of the British Columbia Building Code shall be kept at the central alarm and control facility.
37	2.8.2.7.(4),(5)	<p>Insert the following:</p> <p>4) All <i>buildings</i> served by one or more elevators shall have a permanently mounted fire safety sign or symbol on each floor level at each elevator entrance, which indicates that the elevator is not to be used in case of fire.</p> <p>5) The sign or symbol required by Sentence (4) shall be at least 100 mm in height and width and shall be designed in accordance with NFPA 170 “Standard for Fire Safety Symbols.”</p>
38	2.8.3.1.(1)(e)	<p>Replace with the following:</p> <p>e) the features of fire emergency systems installed in <i>buildings</i> within the scope of Subsection 3.2.6. of the British Columbia Building Code, and</p>
39	2.8.3.2.(1)(c)	<p>Replace with the following:</p> <p>c) in buildings within the scope of Subsection 3.2.6. of the British Columbia Building Code, such drills shall be held at intervals not greater than 2 months.</p>
40	2.9.1.1.(1)	<p>Replace with the following:</p> <p>1) Tents and air-supported structures shall be in conformance with the British Columbia Building Code.</p>
41	2.9.3.6.(1)	<p>Replace with the following:</p> <p>1) Internal combustion engines used to power supplementary blowers required by the British Columbia Building Code shall be operated and maintained in conformance with Section 6.5 of this code.</p>
42	2.10.1.and 2.10.2	<p>Replace with the following:</p> <p>Section 2.10. Community Care Facilities</p> <p>2.10.1. Construction</p> <p>2.10.1.1. Construction</p> <p>1) <i>Community care facilities</i> shall be constructed in conformance with the requirements of the British Columbia Building Code.</p> <p>2.10.2. Staffing</p> <p>2.10.2.1. Staffing</p> <p>1) <i>Community care facilities</i> shall be staffed in accordance with the appropriate requirements of the Community Care and Assisted Living Act and pursuant regulations.</p>

43	2.11.1.1.(1)	<p>Replace with the following:</p> <p>1) <i>Buildings</i> altered or occupied for purposes of providing accommodation for boarders, lodgers or roomers shall conform to the British Columbia Building Code.</p>
44	2.13.2.1.(1)	<p>Replace with the following:</p> <p>1) Areas or rooms communicating with the landing area shall be separated therefrom by a <i>fire separation</i> conforming to the British Columbia Building Code.</p>
45	2.13.2.2.(2)	<p>Replace with the following:</p> <p>2) Helicopter landing areas on roofs shall be provided with telephone extensions or means to notify the fire department in conformance with the British Columbia Building Code.</p>
46	2.14.	<p>Insert the following:</p> <p>2.14. Fire Protection for Construction Camps</p> <p>2.14.1. Fire Protection</p> <p>2.14.1.1. Fire Protection for Construction Camps</p> <p>1) Fire protection for construction camps shall conform to the British Columbia Building Code.</p>
47	2.15	<p>Insert the following:</p> <p>2.15. Fire Protection for Marinas and Boatyards</p> <p>2.15.1. Fire Protection</p> <p>2.15.1.1. Fire Protection</p> <p>1) Fire protection for marinas and boatyards shall conform to NFPA 303 “Fire Protection Standard for Marinas and Boatyards.”</p>

48	<p>Table 2.14.1.1. (renumbered to Table 2.16.1.1.</p>	<p>Replace in the following with:</p> <p>Insert:</p> <table border="1" data-bbox="480 338 1281 436"> <tr> <td colspan="2">2.2.2.5. Fire Door Signage</td> </tr> <tr> <td>(1)</td> <td>[F03, F05-OS1.2] [F03, F05-OS1.5]</td> </tr> </table> <p>Insert:</p> <table border="1" data-bbox="480 510 1281 646"> <tr> <td colspan="2">2.3.1.5. Combustible Materials Within Classrooms</td> </tr> <tr> <td>(1)</td> <td>[FO2-OP1.2] [FO2-OS1.2]</td> </tr> </table> <p>Insert:</p> <table border="1" data-bbox="480 720 1281 856"> <tr> <td colspan="2">2.6.3.1. Use</td> </tr> <tr> <td>(2)</td> <td>[FO2-OP1.2] [FO2-OS1.2] [FO1-OS1.4, OS1.5]</td> </tr> </table> <p>Insert:</p> <table border="1" data-bbox="480 930 1281 1066"> <tr> <td colspan="2">2.8.2.7. Posting of Emergency Procedures</td> </tr> <tr> <td>(4)</td> <td>[F10-OS1.5]</td> </tr> </table> <p>Replace with the following:</p> <table border="1" data-bbox="480 1140 1281 1388"> <tr> <td colspan="2">2.10.2.1. Staffing</td> </tr> <tr> <td>(1)</td> <td>[FO1-OS1.1, OS1.2] [F10-OS1.5] [F12, F13-OS1.2]</td> </tr> <tr> <td>(2)</td> <td>Delete(2) from table</td> </tr> </table>	2.2.2.5. Fire Door Signage		(1)	[F03, F05-OS1.2] [F03, F05-OS1.5]	2.3.1.5. Combustible Materials Within Classrooms		(1)	[FO2-OP1.2] [FO2-OS1.2]	2.6.3.1. Use		(2)	[FO2-OP1.2] [FO2-OS1.2] [FO1-OS1.4, OS1.5]	2.8.2.7. Posting of Emergency Procedures		(4)	[F10-OS1.5]	2.10.2.1. Staffing		(1)	[FO1-OS1.1, OS1.2] [F10-OS1.5] [F12, F13-OS1.2]	(2)	Delete(2) from table
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49	3.1.1.4.(2)	<p>Replace with the following:</p> <p>2) Except as provided in this Part, the storage and handling of liquefied petroleum gases and natural gas shall conform to the British Columbia Safety Standards Act and pursuant regulations.</p>																						
50	3.1.3.2.(3)(d)	<p>Replace with the following:</p> <p>d) spare propane cylinders are stored in conformance with Section 3.3.5. and the British Columbia Safety Standards Act and pursuant regulations.</p>																						
51	3.1.4.1.(1)	<p>Replace with the following:</p> <p>1) Where wiring or electrical equipment is located in areas in which flammable gases or vapours, <i>combustible dusts</i> or <i>combustible fibres</i> are present in quantities sufficient to create a hazard, such wiring and electrical equipment shall conform to</p>																						

		the British Columbia Safety Standards Act and pursuant regulations, for hazardous locations. (See A-5.1.2.1.(1) in Appendix A.)
52	3.2.6.2.(1)	<p>Replace with the following:</p> <p>1) <i>Buildings</i> used for the storage of baled <i>combustible fibres</i> shall comply with the height and area limitations of the British Columbia Building Code for <i>buildings</i> classified as Group F, Division 2.</p>
53	3.2.7.12.(3)	<p>Replace with the following:</p> <p>3) In <i>buildings</i> regulated by Sentence (1), access openings to each <i>storey</i> provided in conformance with the British Columbia Building Code shall be not less than 750 mm wide by 1 100 mm high. (See Appendix A.)</p>
54	3.2.8.2.(3)	<p>Replace with the following:</p> <p>3) The storage of “single-trip” non-refillable cylinders (i.e. TC-39, TC-2P, and TC-2Q) with water capacities of more than 375 g and less than 1.13 kg located within <i>mercantile occupancies</i>, shall conform to the British Columbia Safety Standards Act and pursuant regulations.</p>
55	3.2.9.2.(7)	<p>Replace with the following:</p> <p>7) <i>Buildings</i> used for the storage of ammonium nitrate shall incorporate spatial separation and exposure protection in conformance with Subsection 3.2.3. of the British Columbia Building Code. (See Appendix A.)</p>
56	3.3.2.5. (1)	<p>Replace with the following:</p> <p>1) Except as provided in Sentence (2), an access route constructed in conformance with Subsection 3.2.5. of the British Columbia Building Code shall be provided to permit the approach of fire department vehicles to within 60 m travelling distance of any part of an <i>individual storage area</i>.</p>
57	4.1.4.1.(1) and (2)	<p>Replace with the following:</p> <p>1) Electrical equipment in a location where <i>flammable liquids</i> or <i>combustible liquids</i> are present shall conform to the British Columbia Safety Standards Act and pursuant regulations. (See Appendix A.)</p> <p>2) Where refrigerators are used to store Class I liquids, they shall be designed so that</p> <ol style="list-style-type: none"> a) electrical equipment located within the storage compartment, within the outer shell, on the door and on the door frame of the refrigerator is in conformance with the British Columbia Safety Standards Act and pursuant regulations, for hazardous locations based on the frequency of occurrence and duration of an explosive gaseous atmosphere, and b) electrical equipment mounted on the outside surface of the refrigerator is <ol style="list-style-type: none"> i) in conformance with the British Columbia Safety Standards Act and

		<p>pursuant regulations, for hazardous locations, or</p> <p>ii) located above the top of the storage compartment in an ordinary location and installed in conformance with the British Columbia Safety Standards Act and pursuant regulations.</p>
58	4.1.7.1.(1)	<p>Replace with the following:</p> <p>1) Where <i>flammable liquids</i> and <i>combustible liquids</i> are processed, handled, stored, dispensed or used within rooms or enclosed spaces, ventilation shall conform to the applicable requirements of this Part and the British Columbia Building Code. (See Appendix A.)</p>
59	4.2.7.5.(2)(b)	<p>Replace with the following:</p> <p>b) spatial separation in conformance with the British Columbia Building Code.</p>
60	4.2.11.3.(1)	<p>Replace with the following:</p> <p>1) An access route not less than 6 m wide constructed in conformance with Subsection 3.2.5. of the British Columbia Building Code shall be provided in outdoor storage areas to permit the approach of fire department vehicles to within 60 m of any part of a pile.</p>
61	4.3.1.3.(2)	<p>Replace with the following:</p> <p>2) <i>Pressure vessels</i> shall be constructed in conformance with the British Columbia Safety Standards Act and pursuant regulations.</p>
62	4.3.2.4.(2)	<p>Replace with the following:</p> <p>2) An access route constructed in conformance with Subsection 3.2.5. of the British Columbia Building Code shall be provided in outdoor storage areas to permit the approach of fire department vehicles to within 60 m travelling distance of any <i>storage tank</i>.</p>
63	4.3.3.2.(1)(a)	<p>Replace with the following:</p> <p>a) Part 4 of the British Columbia Building Code, and</p>
64	4.3.13.4.(1)	<p>Replace with the following:</p> <p>1) In <i>buildings</i> not required to be equipped with a standpipe and hose system by the British Columbia Building Code, hose stations shall be provided in the vicinity of the storage room, such that all parts of the room are within reach of a hose stream. (See Appendix A.)</p>
65	4.5.2.1.(3) (a)	<p>Replace with the following:</p> <p>a) ULC/ORD-C971-2005, "Nonmetallic Underground Piping for Flammable and Combustible Liquids," or</p>

66	4.5.6.13.(2) (b)	<p>Replace with the following:</p> <p>b) flexible non-metallic pipe and fittings conforming to ULC/ORD-C971-2005, “Nonmetallic Underground Piping for Flammable and Combustible Liquids” are permitted to be used where necessary in underground piping systems carrying <i>flammable liquids</i> or <i>combustible liquids</i>, or</p>
67	4.5.8.2.(3)	<p>Replace with the following:</p> <p>3) Piping and steam lines shall be enclosed in insulation conforming to the British Columbia Building Code.</p>
68	4.6.1.1.(2)	<p>Replace with the following:</p> <p>2) Except as provided in this section, the storage and dispensing of Class 2.1 flammable gases at <i>fuel dispensing stations</i> shall conform to the British Columbia Safety Standards Act and pursuant regulations.</p>
69	4.6.3.3.(2)(d)	<p>Replace with the following:</p> <p>d) ventilation is provided in conformance with Subsection 4.1.7. of this Code and with the requirements for storage garages in Part 6 of the British Columbia Building Code.</p>
70	4.6.3.3.(3)	<p>Replace with the following:</p> <p>3) The location of dispensers of Class I liquids within a <i>building</i> shall conform to Subsection 3.3.5. of the British Columbia Building Code.</p>
71	5.1.2.1.(1)	<p>Replace with the following:</p> <p>1) Where wiring or electrical equipment is located in areas in which flammable gases or vapours, <i>combustible dusts</i> or <i>combustible fibres</i> are present in quantities sufficient to create a hazard, such wiring and electrical equipment shall conform to the British Columbia Safety Standards Act and pursuant regulations for hazardous locations. (See Appendix A.)</p>
72	5.1.2.2.(1)	<p>Replace with the following:</p> <p>1) Electrical installations shall conform to the British Columbia Safety Standards Act and pursuant regulations.</p>
73	5.1.3.1.(1)	<p>Replace with the following:</p> <p>1) Ventilation shall be provided for hazardous locations and processes in conformance with the British Columbia Building Code and with this Part.</p>
74	5.3.1.2.(2)	<p>Replace with the following:</p> <p>2) When used in an atmosphere containing <i>combustible dusts</i>, the cleaning</p>

6.4.2. Standard Fire Hose Thread

6.4.2.1. Specifications

- 1) All 2-1/2-inch fire hose couplings and allied fittings shall conform to the detailed specifications as follows:
 - a) all couplings and fitting shall have a 60° truncated vee thread having dimensions in inches for the male and female couplings as set out in the following tables:

Male

Nominal Inside Diameter	Thread Per Inch	Major Diameter		Pitch Diameter		Minor Diameter		Pitch	Depth of Thread
		Max	Min	Max	Min	Max	Min		
2.500	8	3.000	2.990	2.919	2.909	2.838	—	0.125	0.081

Female

Nominal Inside Diameter	Thread Per Inch	Major Diameter		Pitch Diameter		Minor Diameter		Pitch	Depth of Thread
		Max	Min	Max	Min	Max	Min		
2.500	8	—	3.020	2.949	2.939	2.868	—	0.125	0.081

- 2) All 2-1/2-inch couplings shall be made with the higbee cut to aid quick coupling, the design of which requires the female swivel to have a distance from the face of the coupling swivel to the start of the first thread of 1/16 of an inch, and the male thread shall have a distance from the face of the nipple to the start of the first thread of 1/8 of an inch.
- 3) Thread form shall be calculated as follows:
 Thread form, 60° truncated vee,
 N = number of threads per inch
 P = pitch of thread
 D = depth of thread
 F = flat or truncation of thread

$$P = \frac{1}{N} \times \frac{1}{8} = 0.125$$

$$D = 0.6495P = \frac{0.6495}{N} = \frac{0.6495}{8} = 0.081$$

$$F = \frac{P}{8} = \frac{1}{8 \times N} = \frac{1}{8 \times 8} = 0.081$$

- 4) The threaded portion of the 2-1/2-inch female hose coupling shall be shorter than the threaded portion of the male by 1/32 of an inch for end clearance, and the outer edge of the male pilot end and the inside edge of the female end shall be slightly chamfered.
- 5) The length of the female hose-coupling shall not be less than 3-31/64 inches.
- 6) The threaded end of the female coupling, including the washer recess, shall be 28/32 of an inch.
- 7) The length of the male hose-coupling shall not be less than 3-3/32 inches.
- 8) The threaded end of the male coupling shall be 29/32 of an inch in length.
- 9) Material from which fire-hose couplings and fittings are fabricated shall be suitable for its intended use.
- 10) The outside diameter of the female coupling shall not be less than 3-5/8 inches for the fixed portion and 3-11/16 inches for the swivel portion.
- 11) The outside diameter of the male coupling shall not be less than 3-5/8 inches.
- 12) Rubber washers which are made to fit the standard female coupling shall be 3-1/4 inches outside diameter, 2-9/16 inches inside diameter, and 1-1/4 inches in thickness.
- 13) Fire-hydrant operating spindle-nuts and port cap-nuts shall be pentagonal in shape, having dimensions in accordance with the following:
 - a) diameter of the circumscribed circle shall be 1-3/4 inches;
 - b) the nut shall measure not more than 1-1/4 inches in height.

83	7.1.1.1.(1)	Replace with the following: 1) This Part provides for the inspection, testing and maintenance of the fire emergency systems installed in high <i>buildings</i> as defined in Subsection 3.2.6. of the British Columbia Building Code.
84	7.1.1.2.(1)	Replace with the following: 1) Except as provided in Sentence (2), fire emergency systems required to be installed in <i>buildings</i> in conformance with Subsection 3.2.6. of the British Columbia Building Code shall be tested in conformance with Sections 7.2. and 7.3.
85	7.1.1.2.(2)	Replace with the following: 2) Any fire emergency system required by Subsection 3.2.6. of the British Columbia Building Code that does not conform to a specific measure outlined in Commentary C of the User's Guide — NBC 1995 Fire Protection, Occupant Safety and Accessibility (Part 3) shall be tested to ensure that it operates as intended.
86	7.1.1.4.(2)	Replace with the following: 2) The keys required to recall elevators and to permit independent operation of each elevator shall be kept in the locations required by Subsection 3.2.6. of the British Columbia Building Code.
87	7.2.2.1.(2)	Replace with the following:

		<p>2) Tests to ensure operation in conformance with the British Columbia Safety Standards Act and pursuant regulations, shall be performed on</p> <ul style="list-style-type: none"> a) in-car emergency service switches, b) manual key-operated recall switches located outside an elevator shaft, and c) automatic emergency recall systems.
88	7.2.3.1.(2)(b)	<p>Replace with the following:</p> <ul style="list-style-type: none"> b) on a signal from the <i>smoke</i> detector in the smoke shaft, and
Division C Part 2		
89	2.2	<p>Replace with following:</p> <p>Section 2.2. Administration</p>
90	2.2.1.3.	<p>Insert the following:</p> <p>2.2.1.3. Authority</p> <ul style="list-style-type: none"> 1) The fire commissioner is designated as the person responsible for administration of this Code. 2) The fire commissioner, <i>inspectors</i> and local assistants are designated as the persons responsible for the enforcement of this Code and may issue <i>orders</i> to ensure compliance where necessary. (See Appendix A.)
91	2.2.1.4.	<p>Insert the following:</p> <p>2.2.1.4. Orders</p> <ul style="list-style-type: none"> 1) When making an <i>order</i>, the fire commissioner, <i>inspectors</i> and local assistants shall take into account relevant recognized standards and related safety factors. 2) An <i>order</i> shall be made in writing and given to owner, occupier or person in charge. 3) An owner or occupier of a <i>building</i> or premises shall, after receipt of the <i>order</i>, comply with it. (See Appendix A.)

92	2.2.1.5.	<p>Insert the following:</p> <p>2.2.1.5. Appeals to Fire Commissioner</p> <p>1) A person adversely affected by the <i>order</i> made by a local assistant or an <i>inspector</i> may appeal the <i>order</i> to the fire commissioner.</p> <p>2) An appeal shall be made in writing within 10 days after receipt of the <i>order</i> by the owner or occupier.</p> <p>3) The fire commissioner shall investigate each appeal, affirm, modify or revoke the <i>order</i> appealed from, and in writing communicate the decision and the reasons to the appellant and to the maker of the <i>order</i>.</p>
93	2.2.1.6.	<p>Insert the following:</p> <p>2.2.1.6. Other Appeals</p> <p>1) Where an <i>order</i> made under this Code involves the loss or expenditure of more than the amount stated in section 28 of the <i>Act</i>, a person adversely affected by it, if dissatisfied with the <i>order</i> or decision, may, within 5 days of its receipt, apply for a review of it by petition to the Supreme Court, and section 28 of the <i>Act</i> applies for the purposes of this review.</p>
94	2.3.	<p>Insert the following:</p> <p>Section 2.3. Alternative Solutions</p> <p>(See Sentence 1.2.1.1.(1))</p>
95	2.3.1.1.(1)	<p>Replace with the following:</p> <p>1) When required by the <i>authority having jurisdiction</i>, documentation conforming to this Subsection shall be provided to that authority by the person proposing the use of an alternative solution to demonstrate that the alternative solution complies with this Code. (See Appendix A)</p>
96	2.3.1.1.(6)	<p>Replace with the following:</p> <p>6) If the design of a <i>building</i> or facility includes proposed alternative solutions that involve more than one person taking responsibility for different aspects of the design, the proponent shall identify a single person to co-ordinate the preparation of the design, Code analysis and documentation referred to in this Subsection.</p>
97	2.3.1.2.(1)(b)	<p>Replace with the following:</p> <p>b) in the British Columbia Building Code that are attributed to the objectives Fire Safety (OS1), Safety in Use (OS3), Fire Protection of Building or Facility (OP1), or Protection of Adjacent Buildings or Facilities from Fire (OP3).</p>

98	2.4	<p>Insert the following:</p> <p>Section 2.4 Permits</p> <p>2.4.1. Application</p> <p>2.4.1.1. Application</p> <p>1) This section applies to obtaining permits for the construction and operation of bulk plants, <i>process plants</i> and <i>distilleries</i>, and the installation and operation of <i>fuel dispensing stations</i>.</p> <p>2) No permit shall be issued unless the approval of the local government has first been obtained.</p> <p>3) The permit shall be displayed in a location designated by the <i>authority having jurisdiction</i> for reference by the fire department and other personnel.</p> <p>2.4.2. Bulk Plants, Process Plants and Distilleries</p> <p>2.4.2.1. Permit Requirement</p> <p>1) No person shall operate or modify a bulk plant, <i>process plant</i> or <i>distillery</i> without first obtaining a permit issued by the fire commissioner or an <i>inspector</i>.</p> <p>2) Application for the permit shall be made to the fire commissioner and accompanied by plans acceptable to the fire commissioner. (See Appendix A.)</p> <p>3) Construction of the bulk plant, <i>process plant</i> or <i>distillery</i> shall not be commenced until the plans have been accepted in writing.</p> <p>2.4.3. Fuel Dispensing Stations</p> <p>2.4.3.1. Permit Required</p> <p>1) No person shall operate a <i>fuel dispensing station</i> or install any <i>storage tank</i> or any pump or measuring device to be used for the purpose of retailing <i>flammable liquids</i> or <i>combustible liquids</i> without first obtaining a permit issued by a local assistant to the fire commissioner.</p> <p>2.4.3.2. Application for Permit</p> <p>1) Application for the permit shall be made in writing to the local assistant to the fire commissioner for the municipality or the fire district in which the <i>fuel dispensing station</i> is located.</p> <p>2) In the absence of a local assistant, the application shall be made to the fire commissioner or an <i>inspector</i> who may issue the permit.</p> <p>3) The application for the permit shall be accompanied by information acceptable to the <i>authority having jurisdiction</i>. (See Appendix A.)</p>
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