

SUMMARY TABLE OF CONTENTS

Table of Cases	lv
Introduction	lvii
History of <i>Fire Regulation</i> in Ontario	lvii
Purpose of the Code	lviii
The National <i>Fire Code</i> of Canada 2010	lix
The 2016 Ontario <i>Fire Code</i>	lix
Scope of This Book	lx
<i>Fire Protection and Prevention Act, 1997</i> — S.O. 1997, c. 4	1
<i>Fire Code</i> — O. Reg. 213/07	71
Forms — O. Reg. 425/11	428
Mandatory Assessment of Complaints and Requests for Approval — O. Reg. 365/13	431
Mandatory Inspection — Fire Drill in Vulnerable Occupancy — O. Reg. 364/13	434
Appendix — Historical Building Code References	437
Index	439

TABLE OF CONTENTS

Table of Cases	lv
Introduction	lvii

FIRE PROTECTION AND PREVENTION ACT, 1997

PART I — DEFINITIONS	
1	Definitions 1
PART II — RESPONSIBILITY FOR FIRE PROTECTION SERVICES	
2	Municipal responsibilities 3
3	Territory without municipal organization 4
4	Community fire safety officer or team 4
5	Municipalities may establish fire departments 5
6	Fire chief, municipalities 5
7	Fire co-ordinators 6
7.1	Municipal by-laws 6
PART III — FIRE MARSHAL	
8	Appointment of Fire Marshal 7
9	Powers of Fire Marshal 7
10	Delegation 12
11	Assistants to the Fire Marshal 12
PART IV — FIRE CODE	
12	Fire Code 13
PART V — RIGHTS OF ENTRY IN EMERGENCIES AND FIRE INVESTIGATIONS	
13	Entry on adjacent lands by firefighters, etc. 15
14	Entry where fire has occurred or is likely to occur 16
15	Immediate threat to life 17
16	Assistance 18
17	Identification 18
PART VI — INSPECTIONS	
18	Interpretation 18
19	Inspectors 19
20	Warrant authorizing entry 20
21	Inspection orders 21
22	Limitation on orders relating to structural repairs 23
23	Contents of order 24
24	Service of order 24
25	Review of inspection order by Fire Marshal 24
26	Appeal to Fire Safety Commission 25
27	Appeal to Divisional Court 26

Table of Contents

PART VII — OFFENCES AND ENFORCEMENT	
28	Offences 27
29	Offence, removal of posted notice 29
30	Offence, failure to comply with inspection order 29
31	Order to close premises, etc. 29
32	Compliance order 30
33	Fire Marshal to carry out inspection order 30
34	Warrant authorizing entry 31
PART VIII — RECOVERY OF COSTS	
35	Fire Marshal's order to pay costs 32
36	Appeal to Fire Safety Commission 33
37	Enforcement of order to pay costs 33
38	Instructions for municipality to recover costs 33
39	Collection of costs 35
40	Expenses related to work on other lands 35
PART IX — FIREFIGHTERS: EMPLOYMENT AND LABOUR RELATIONS	
<i>Definitions</i>	
41	Definitions 35
<i>Working Conditions</i>	
42	Strike and lock outs 37
43	Hours of work 37
44	Termination of employment 38
<i>Establishment of Bargaining Rights by Certification</i>	
45	Bargaining unit 38
46	Bargaining agent 38
<i>Unfair Labour Practices</i>	
46.1	Duty of fair representation by association 39
46.2	Employers not to interfere with associations 39
46.3	Associations not to interfere with employers' organizations 39
46.4	Employers not to interfere with firefighters' rights 39
46.5	No interference with bargaining rights 40
46.6	Intimidation and coercion 40
46.7	Persuasion during working hours 40
46.8	Protection of witnesses' rights 40
46.9	Removal, etc., of posted notices 41
<i>Collective Bargaining</i>	
47	Notice of desire to bargain 41
48	Obligation to bargain 41
49	Conciliation 42
50	Arbitration 42
50.1	Appointment of single arbitrator 42
50.2	Appointment of board of arbitration 43
50.3	Appointment or proceedings of board not subject to review 46
50.4	Single arbitration of several disputes 46
50.5	Duty of board 47
50.6	Where agreement reached 48
50.7	Delegation 49
50.8	Existing proceedings discontinued 49

Table of Contents

	Operation of Collective Agreements	
51	Collective agreement	49
52	Minimum term of collective agreements	50
52.1	Deduction and remittance of association dues	50
52.2	Permissive provisions	51
52.3	Religious objections	52
53	Arbitration provision required	52
53.0.1	Referral of grievances to a single arbitrator	55
53.1	Mandatory retirement	56
54	Managers, etc.	56
55	Enforcement of decisions	58
56	Working conditions not to be altered	58
56.1	Inquiry, alleged contravention	59
56.2	“person” defined for purposes of ss. 46.8 and 56.1	60
56.3	Board power re interim orders	60
56.4	Transition rules	61
	Regulations	
57	Regulations	61
	PART X — FIRE SAFETY COMMISSION	
58	Fire Safety Commission	61
	PART XI — FIRE MARSHAL’S PUBLIC FIRE SAFETY COUNCIL	
59	Definition	62
60	Council established	62
61	Objects	62
62	Board	63
63	Powers of Council	63
64	Borrowing powers	64
65	By-laws	64
66	Council’s property to be dedicated to objects	64
67	Employees	65
68	Ministry support	65
69	Protection from personal liability	65
70	Auditors	65
71	Annual and other reports	65
72	Winding-up	65
73	Review	66
	PART XII — MISCELLANEOUS	
74	Protection from personal liability	66
75	Indemnification	66
76	No action for damages from accidental fire	67
77	Manner of service	67
78	Regulations	68
79	Municipal by-laws superseded	69
	PART XIII — CONSEQUENTIAL AMENDMENTS, REPEALS, COMMENCEMENT AND SHORT TITLE	
80	Employment Standards Act	69
81	Highway Traffic Act	69
82	Juries Act	69

Table of Contents

83	Labour Relations Act, 1995	69
84	Occupational Health and Safety Act	70
85	Repeal	70
86	Same	70
87	Same	70
88	Same	70
89	Same	70
90	Same	70
91	Same	70
92	Same	70
93	Same	70
94	Commencement	70
95	Short title	70

213/07 — FIRE CODE

DIVISION A — COMPLIANCE, OBJECTIVES AND FUNCTIONAL STATEMENTS

Part 1 — Compliance and General

Section 1.1 — Organization of this Code

Subsection 1.1.1 — General

1.1.1.1	Scope of Division A	71
1.1.1.2	Scope of Division B	71
1.1.1.3	Scope of Division C	71
1.1.1.4	Internal cross-references	71

Section 1.2 — Compliance

Subsection 1.2.1 — Compliance with this Code

1.2.1.1	Owner's responsibility	71
1.2.1.2	Compliance with Parts 2 and 3	72

Subsection 1.2.2 — Compliance with Division B

1.2.2.1	72
---------	-----------	----

Subsection 1.2.3 — Compliance with Other Applicable Law

1.2.3.1	Compliance with other applicable law	72
---------	--	----

Section 1.3 — Exemptions

Subsection 1.3.1 — Exemption for Farms

1.3.1.1	73
---------	-----------	----

Section 1.4 — Terms and Abbreviations

Subsection 1.4.1 — Definitions of Words and Phrases

1.4.1.1	Non-defined terms	73
1.4.1.2	Defined terms	73

Subsection 1.4.2 — Symbols and Other Abbreviations

1.4.2.1	84
---------	-----------	----

Section 1.5 — Referenced Documents

Subsection 1.5.1 — Referenced Documents

1.5.1.1	Application of referenced documents	85
1.5.1.2	Conflicting requirements	85
1.5.1.3	Secondary references	85

Table of Contents

Part 2 — Objectives

Section 2.1 — Application

Subsection 2.1.1 — Application

2.1.1.1 86

Section 2.2 — Objectives

Subsection 2.2.1 — Objectives

2.2.1.1 86

Part 3 — Functional Statements

Section 3.1 — Application

Subsection 3.1.1 — Application

3.1.1.1 90

Section 3.2 — Functional Statements

Subsection 3.2.1 — Functional Statements

3.2.1.1 91

DIVISION B — ACCEPTABLE SOLUTIONS

Part 1 — General

Section 1.1 — General

Subsection 1.1.1 — General

1.1.1.1 Notification 71

1.1.1.2 Check, inspect and test 71

Subsection 1.1.2 — Records of Tests and Inspections

1.1.2.1 Records to be prepared 93

1.1.2.2 Retention of records 94

1.1.2.3 Records to be made available on request 94

Section 1.2 — Referenced Documents and Organizations

Subsection 1.2.1 — Referenced Documents

1.2.1.1 Applicable editions 71

1.2.1.2 Effective date 72

1.2.1.3 Previous editions 94

Subsection 1.2.2 — Organizations

1.2.2.1 Abbreviations of proper names 72

Part 2 — Fire Safety

Section 2.1 — General

Subsection 2.1.1 — Scope and Application

2.1.1.1 Scope 86

2.1.1.2 Application 111

2.1.1.3 Exceptions 111

Subsection 2.1.2 — Classification of Buildings or Parts of Buildings by Major Occupancy

2.1.2.1 Classification of buildings or parts thereof 111

2.1.2.2 Hazardous activities 111

2.1.2.3 [Repealed O. Reg. 256/14, s. 9.] 112

Subsection 2.1.3 — Prohibited Combinations of Occupancies

2.1.3.1 Prohibited combinations of occupancies 112

Table of Contents

Section 2.2 — Fire Separations

Subsection 2.2.1 — Major Occupancies

2.2.1.1 Damaged fire separations 86

Subsection 2.2.2 — Rooms and Spaces

2.2.2.1 Damaged fire separations 112

Subsection 2.2.3 — Closures

2.2.3.1 Damaged closures 112

2.2.3.2 Maintenance of closures 113

2.2.3.3 Operation of closures 113

2.2.3.4 Door in a fire separation 113

2.2.3.5 Inspection of fire dampers and fire-stop flaps 113

2.2.3.6 [Repealed O. Reg. 256/14, s. 13.] 113

2.2.3.7 [Repealed O. Reg. 256/14, s. 13.] 113

2.2.3.8 [Repealed O. Reg. 256/14, s. 13.] 113

Section 2.3 — Interior Finishing, Furnishing and Decorative Materials

Subsection 2.3.1 — General

2.3.1.1 114

2.3.1.2 Moveable partitions and screens 114

Subsection 2.3.2 — Textile Flammability

2.3.2.1 Flame resistance of textiles 114

2.3.2.2 Flameproofing treatments 114

Section 2.4 — Fire Hazards

Subsection 2.4.1 — Combustible Materials

2.4.1.1 Accumulation of combustible materials 115

2.4.1.2 Furniture in corridors serving guest suites 115

2.4.1.3 Waste receptacles 115

2.4.1.4 Waste containers in hotels 116

2.4.1.5 Lint traps for laundry equipment 116

2.4.1.6 Flammable or combustible liquid spills 116

Subsection 2.4.2 — Reserved

2.4.2 116

Subsection 2.4.3 — Smoking

2.4.3.1 Smoking prohibited 116

2.4.3.2 Signs 116

Subsection 2.4.4 — Open Flames

2.4.4.1 Open flames prohibited 117

2.4.4.2 117

2.4.4.3 Devices having open flames 117

2.4.4.4 Open-air burning 117

Subsection 2.4.5 — Use of Hazardous Materials

2.4.5.1 118

2.4.5.2 118

Subsection 2.4.6 — Electrical Hazards

2.4.6.1 Electrical wiring 118

Subsection 2.4.7 — Vacant Buildings

2.4.7.1 118

Table of Contents

Section 2.5 — Fire Department Access to Buildings

Subsection 2.5.1 — General

2.5.1.1	Application	118
2.5.1.2	Maintaining access free of obstructions	118
2.5.1.3	Maintenance	119
2.5.1.4	Signs	119

Section 2.6 — Service Equipment

Subsection 2.6.1 — Heating, Ventilating and Air-Conditioning

2.6.1.1	Application	119
2.6.1.2	Solid fuel bins	119
2.6.1.3	Hoods, filters and ducts	119
2.6.1.4	Chimneys, flues and flue pipes	119
2.6.1.5		119
2.6.1.6		120
2.6.1.7	Operation of systems	120
2.6.1.8	Disconnect switches	120
2.6.1.9	Ventilation shafts	120
2.6.1.10	Precautions during repairs or renovations	120
2.6.1.11		120
2.6.1.12	Exhaust and fire protection systems in cooking operations	120
2.6.1.13	Maintenance of exhaust and fire protection systems	121
2.6.1.14		121

Subsection 2.6.2 — Solid-Fuel-Burning Appliances

2.6.2.1	Solid-fuel-burning appliances	121
2.6.2.2		121

Subsection 2.6.3 — Incinerators

2.6.3.1	Design, construction, installation and alteration	121
2.6.3.2	Maintenance	121
2.6.3.3	Spark arresters	121
2.6.3.4	[Repealed O. Reg. 256/14, s. 27.]	121

Subsection 2.6.4 — Electrical Equipment Vaults

2.6.4.1		122
2.6.4.2		122

Section 2.7 — Safety to Life

Subsection 2.7.1 — Means of Egress and Occupant Load

2.7.1.1	Mercantile, business and personal services occupancies	122
2.7.1.2		122
2.7.1.3		122
2.7.1.4	Occupant load	122
2.7.1.5	Posting occupant load	123
2.7.1.6	Nonfixed seating	124
2.7.1.7	Maintenance and lighting for exits	124
2.7.1.8	Fire escapes	125
2.7.1.9	Turnstiles and checkout counters	125

Subsection 2.7.2 — Door Hardware

2.7.2.1	Door release hardware	125
2.7.2.2	Requirements for locking, latching and fastening devices	126

Table of Contents

	Subsection 2.7.3 — Exit Lighting and Emergency Lighting	
2.7.3.1	Exit signs	127
2.7.3.2	Same	127
2.7.3.3	Emergency lighting	128
	Subsection 2.7.4 — Indoor Public Amusement Areas	
2.7.4.1	Fire hazards	128
2.7.4.2	Emergency egress	129
	Section 2.8 — Emergency Planning	
	Subsection 2.8.1 — General	
2.8.1.1	Application	129
2.8.1.2	Instructions in emergency procedures	130
2.8.1.3	. . . . .	130
	Subsection 2.8.2 — Fire Safety Plan	
2.8.2.1	Measures in a fire safety plan	130
2.8.2.2	Supervisory staff	132
2.8.2.3	High buildings	132
2.8.2.4	. . . . .	132
2.8.2.5	Posting fire emergency procedures	132
	Subsection 2.8.3 — Fire Drills	
2.8.3.1	Procedures	133
2.8.3.2	Frequency	133
2.8.3.3	Notification of Chief Fire Official	134
2.8.3.4	Records	134
2.8.3.5	Hotel employees	134
	Section 2.9 — Tents and Air-Supported Structures	
	Subsection 2.9.1 — General	
2.9.1.1	. . . . .	135
2.9.1.2	. . . . .	135
	Subsection 2.9.2 — Materials	
2.9.2.1	Flameproofing treatments	135
	Subsection 2.9.3 — Fire Hazards and Control	
2.9.3.1	Combustible materials	135
2.9.3.2	Smoking and open flames prohibited	135
2.9.3.3	Fire alarm system or firewatch	135
2.9.3.4	. . . . .	136
2.9.3.5	Communications systems	136
	Section 2.10 — Day Care Centres	
	Subsection 2.10.1 — Application	
2.10.1.1	Application	136
	Subsection 2.10.2 — Combustible Materials	
2.10.2.1	Artwork and teaching materials on walls	136
2.10.2.2	Waste receptacles	136
2.10.2.3	Flammable and combustible liquids	136
	Subsection 2.10.3 — Staffing	
2.10.3.1	. . . . .	137

Table of Contents

Section 2.11 — Insulation and Re-Insulation	
Subsection 2.11.1 — General	
2.11.1.1	137
2.11.1.2	137
2.11.1.3	137
Section 2.12 — Covered Malls	
Subsection 2.12.1 — General	
2.12.1.1	137
2.12.1.2	137
2.12.1.3	137
2.12.1.4	138
2.12.1.5	138
2.12.1.6	138
2.12.1.7	138
Section 2.13 — Installation of Smoke Alarms	
Subsection 2.13.1 — Application and Responsibility	
2.13.1.1	138
2.13.1.2	138
Subsection 2.13.2 — Installation Requirements	
2.13.2.1	138
Section 2.14 — Outdoor Public Amusement Areas	
Subsection 2.14.1 — General	
2.14.1.1	139
2.14.1.2	139
2.14.1.3	139
2.14.1.4	139
2.14.1.5	140
Section 2.15 — Portable Oxygen Systems	
Subsection 2.15.1 — General	
2.15.1.1	140
2.15.1.2	140
Section 2.16 — Installation of Carbon Monoxide Alarms	
Subsection 2.16.1 — Application and Responsibility	
2.16.1.1	140
2.16.1.2	141
Subsection 2.16.2 — Installation Requirements	
2.16.2.1	141
Part 3 — Outdoor and Indoor Storage	
Section 3.1 — General	
Subsection 3.1.1 — Application	
3.1.1.1	90
Section 3.2 — Outdoor Storage	
Subsection 3.2.1 — Outdoor Storage of Tires	
3.2.1.1	91
3.2.1.2	142

Table of Contents

3.2.1.3	Fire safety planning	143
3.2.1.4	Pile dimensions, locations and clearance	143
3.2.1.5	Clearance for bulk volume over 4800 m ³	143
3.2.1.6	Alternative approved measures	143
3.2.1.7	Fire department access	144
3.2.1.8	Fencing and gateways	144
3.2.1.9	Water supply	144
3.2.1.10	Water supply alternative measures	145
3.2.1.11	Portable extinguishers	145
Subsection 3.2.2 — Outdoor Storage of Lumber and Forest Products		
3.2.2.1	Application	145
3.2.2.2	Surface of ground	145
3.2.2.3	Surface under piling	145
3.2.2.4	Clearance for yard storage areas	146
3.2.2.5	Clearance for stickered lumber piles	146
3.2.2.6	Clearance from vegetation	146
3.2.2.7	Wood waste accumulation prohibited	146
3.2.2.8	Separation of treated lumber piles	146
3.2.2.9	Storage beneath power lines	146
3.2.2.10	Pile heights	146
3.2.2.11		146
3.2.2.12	Fire department access	147
3.2.2.13		147
3.2.2.14		147
3.2.2.15		147
3.2.2.16		147
3.2.2.17	Burning of wood waste materials	147
3.2.2.18		147
3.2.2.19		147
3.2.2.20		148
3.2.2.21		148
3.2.2.22	Smoking prohibited	148
3.2.2.23		148
3.2.2.24	Fire extinguishing provisions	148
3.2.2.25		148
3.2.2.26	Hydrant systems and water supply	148
3.2.2.27	Hydrant system	148
Subsection 3.2.3 — Outdoor Storage of Wood Chips		
3.2.3.1	Application	148
3.2.3.2	Surface of ground	149
3.2.3.3		149
3.2.3.4	Vegetation removal	149
3.2.3.5	Pile dimensions	149
3.2.3.6	Fire department access	149
3.2.3.7		149
3.2.3.8		149
3.2.3.9		149
3.2.3.10	Smoking prohibited	150
3.2.3.11	Fire extinguishing provisions	150
3.2.3.12		150

Table of Contents

3.2.3.13	.....	150
Section 3.3 — Indoor Storage		
Subsection 3.3.1 — Indoor Tire Storage		
3.3.1.1	Application	150
3.3.1.2	Tire pile dimensions	150
3.3.1.3	.....	150
3.3.1.4	Pile clearance	150
3.3.1.5	.....	150
3.3.1.6	.....	151
3.3.1.7	.....	151
3.3.1.8	Warehouse fire extinguishing systems	151
3.3.1.9	.....	151
3.3.1.10	Portable extinguishers	151
Subsection 3.3.2 — Indoor General Storage		
3.3.2.1	Application	151
3.3.2.2	Storage dimensions	151
3.3.2.3	Pile clearance	152
3.3.2.4	Fire access aisles	152
3.3.2.5	.....	152
3.3.2.6	.....	152
3.3.2.7	.....	153
3.3.2.8	Palletized storage arrangements	153
3.3.2.9	.....	153
3.3.2.10	Pallet storage	153
3.3.2.11	Smoking prohibited	153
Subsection 3.3.3 — Indoor Storage of Ammonium Nitrate		
3.3.3.1	Application	153
3.3.3.2	Storage buildings	154
3.3.3.3	Industrial trucks	155
3.3.3.4	Portable extinguishers	155
3.3.3.5	Storage	155
3.3.3.6	Automatic sprinklers	156
3.3.3.7	Disposal	156
3.3.3.8	Explosives prohibited	156
3.3.3.9	Smoking and open flames prohibited	156
3.3.3.10	Heating equipment	156
Subsection 3.3.4 — Indoor Storage of Combustible Fibres		
3.3.4.1	Application	156
3.3.4.2	Building size for storage and handling of combustible fibres	156
3.3.4.3	Loose fibre storage	157
3.3.4.4	Baled fibre storage	157
3.3.4.5	Baled storage piles	157
3.3.4.6	Clearance for sprinklers and structural framing	157
3.3.4.7	Heating equipment	158
3.3.4.8	Standpipe and hose system installations	158
3.3.4.9	Portable extinguishers	158
3.3.4.10	Smoke vents	158
Subsection 3.3.5 — Indoor Storage of Matches		
3.3.5.1	Classification, labelling and packaging	158

Table of Contents

3.3.5.2	Storage compartment	158
3.3.5.3	Carton pile arrangements	158
3.3.5.4	Mixed storage	158
3.3.5.5	Storage restrictions	158
Section 3.4 — Industrial Trucks		
Subsection 3.4.1 — General		
3.4.1.1	General	159
Subsection 3.4.2 — Industrial Trucks		
3.4.2.1	Fuel-fired industrial trucks	159
3.4.2.2	Battery-powered industrial trucks	159
3.4.2.3	Training	160
Section 3.5 — Salvage Shops and Salvage Yards		
Subsection 3.5.1 — General		
3.5.1.1	Roof storage prohibited	160
3.5.1.2	Fires prohibited	160
3.5.1.3	Fires prohibited	160
3.5.1.4	Fire access gates	160
3.5.1.5	Fire extinguishing provisions	160
3.5.1.6	. . . . .	160
3.5.1.7	Hydrant systems and water supply	161
3.5.1.8	. . . . .	161
3.5.1.9	Smoking prohibited	161
3.5.1.10	. . . . .	161
Subsection 3.5.2 — Piling		
3.5.2.1	Pile clearance and dimensions	161
3.5.2.2	. . . . .	161
3.5.2.3	Piles of tanks or drums	161
3.5.2.4	Combustible metals	161
Subsection 3.5.3		
3.5.3.1	[Repealed O. Reg. 256/14, s. 76.]	161
3.5.3.2	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.3	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.4	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.5	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.6	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.7	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.8	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.9	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.10	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.11	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.12	[Repealed O. Reg. 256/14, s. 76.]	162
3.5.3.13	[Repealed O. Reg. 256/14, s. 76.]	162
Section 3.6		
Subsection 3.6.1		
3.6.1.1	[Repealed O. Reg. 256/14, s. 77.]	162

Table of Contents

Section 3.7

Subsection 3.7.1

3.7.1.1 [Repealed O. Reg. 256/14, s. 77.] 162
3.7.1.2 [Repealed O. Reg. 256/14, s. 77.] 162

Subsection 3.7.2

3.7.2.1 [Repealed O. Reg. 256/14, s. 77.] 163

Subsection 3.7.3

3.7.3.1 [Repealed O. Reg. 256/14, s. 77.] 163
3.7.3.2 [Repealed O. Reg. 256/14, s. 77.] 163

Part 4 — Flammable Liquids and Combustible Liquids

Section 4.1 — General

Subsection 4.1.1 — Application and Compliance

4.1.1.1 Application and interpretation 163
4.1.1.2 Application 163
4.1.1.3 Compliance 164
4.1.1.4 Compliance equivalency 164

Subsection 4.1.2 — Classification

4.1.2.1 Classification 164
4.1.2.2 Heated liquids 165
4.1.2.3 Used lubricating oil 165

Subsection 4.1.3 — Flash Point

4.1.3.1 Determination of flash point 165

Subsection 4.1.4 — Electrical Installations

4.1.4.1 Hazardous locations 166

Subsection 4.1.5 — Fire Prevention and Protection

4.1.5.1 Portable extinguishers 166
4.1.5.2 166
4.1.5.3 Ignition sources 166
4.1.5.4 Smoking prohibited 166
4.1.5.5 Removal of combustibles 166
4.1.5.6 Fire safety plan 167
4.1.5.7 Access for fire fighting 167
4.1.5.8 Hot works 167
4.1.5.9 Basement storage 167
4.1.5.10 Routine maintenance 167

Subsection 4.1.6 — Spill Control and Drainage Systems

4.1.6.1 Spill control 167
4.1.6.2 Drainage systems 168
4.1.6.3 Spills and leaks 168
4.1.6.4 Spill procedure 169

Subsection 4.1.7 — Ventilation

4.1.7.1 Rooms or enclosed spaces 169
4.1.7.2 Ventilation measures 170
4.1.7.3 Location of air inlets and outlets 171
4.1.7.4 Location of mechanical ventilation exhaust air outlets 171
4.1.7.5 Make-up air 171
4.1.7.6 Recirculating ventilation systems 172

Table of Contents

4.1.7.7	Exclusive use of ducts	172
4.1.7.8	Maintenance	172
	Subsection 4.1.8 — Handling of Flammable and Combustible Liquids	
4.1.8.1	Containers and storage tanks	172
4.1.8.2	Control of static electric charge	172
4.1.8.3	Transfer	173
4.1.8.4	Fuel tanks	173
	Section 4.2 — Container Storage and Handling	
	Subsection 4.2.1 — Application	
4.2.1.1	Application	173
	Subsection 4.2.2 — General	
4.2.2.1	Storage locations	174
4.2.2.2	Storage arrangement	174
4.2.2.3	Separation from other dangerous goods	174
	Subsection 4.2.3 — Containers and Portable Tanks	
4.2.3.1	Design and construction	175
4.2.3.2	Markings or labels	175
4.2.3.3	Other types of containers	175
	Subsection 4.2.4 — Assembly and Residential Occupancies	
4.2.4.1	Application	176
4.2.4.2	Maximum quantities	176
4.2.4.3	Cabinet and room location	176
4.2.4.4	Exterior balconies	176
4.2.4.5	Storage in dwelling units	177
4.2.4.6	Storage in attached garages or sheds	177
	Subsection 4.2.5 — Mercantile Occupancies	
4.2.5.1	Maximum quantities	177
4.2.5.2	Containers	177
4.2.5.3	Transfer	178
	Subsection 4.2.6 — Business and Personal Services, Detention, Educational, Care, and Care and Treatment Occupancies	
4.2.6.1	Application	178
4.2.6.2	Storage cabinets and storage rooms	178
4.2.6.3	Maximum quantities	178
4.2.6.4	Containers	178
4.2.6.5	Separation of dangerous goods	179
	Subsection 4.2.7 — Industrial Occupancies	
4.2.7.1	Application	179
4.2.7.2	Storage facilities	179
4.2.7.3	Fire compartments	179
4.2.7.4	Dispensing and transfer	179
4.2.7.5	Maximum quantities	179
4.2.7.6	Spill control	182
4.2.7.7	Fire suppression systems	182
4.2.7.8	Clearances	183
4.2.7.9	Aisles	183
4.2.7.10	Separation from other dangerous goods	183
4.2.7.11	Separation from combustible products	183

Table of Contents

4.2.7.12	Absorbents	183
4.2.7.13	Ventilation	183
Subsection 4.2.8 — Incidental Use		
4.2.8.1	Application	183
4.2.8.2	Maximum quantities	183
4.2.8.3	Handling	184
4.2.8.4	General storage areas	184
Subsection 4.2.9 — Rooms for Container Storage and Dispensing		
4.2.9.1	Maximum quantities	185
4.2.9.2	Spill control	185
4.2.9.3	Ventilation	186
4.2.9.4	Aisles	186
4.2.9.5	Dispensing	186
4.2.9.6	Explosion venting	186
4.2.9.7	Portable extinguishers	186
4.2.9.8	Egress doors	186
Subsection 4.2.10 — Cabinets for Container Storage		
4.2.10.1	Containers	187
4.2.10.2	Maximum quantity per cabinet	187
4.2.10.3	Maximum quantity per fire compartment	187
4.2.10.4	Labelling	188
4.2.10.5	Cabinets	188
4.2.10.6	Ventilation	188
Subsection 4.2.11 — Outdoor Container Storage		
4.2.11.1	Quantities and clearances	188
4.2.11.2	Mixed storage	189
4.2.11.3	Fire department access	189
4.2.11.4	Spill control	189
4.2.11.5	Fencing	189
Section 4.3 — Storage Tanks		
Subsection 4.3.1 — Application and Storage Tank Design, Construction and Use		
4.3.1.1	Application	190
4.3.1.2	Atmospheric storage tanks	190
4.3.1.3	Low pressure storage tanks and pressure vessels	191
4.3.1.4	Operating pressure	192
4.3.1.5	Corrosion protection	192
4.3.1.6	Floating roofs	192
4.3.1.7	Identification	192
4.3.1.8	Overfill protection	192
4.3.1.9	Installation and use	192
4.3.1.10	Reuse	192
Subsection 4.3.2 — Installation of Outside Aboveground Storage Tanks		
4.3.2.1	Location	193
4.3.2.2	Spacing between storage tanks	194
4.3.2.3	Clearances from liquefied petroleum gas cylinders and tanks	195
4.3.2.4	Fire department access	195
4.3.2.5	Fire protection systems	195

Table of Contents

4.3.2.6	Leakage testing	195
Subsection 4.3.3 — Supports, Foundations and Anchorage for Aboveground Storage Tanks		
4.3.3.1	Foundations and supports	195
4.3.3.2	Earthquake protection	196
4.3.3.3	Protection against flooding	196
Subsection 4.3.4 — Normal and Emergency Venting for Aboveground Storage Tanks		
4.3.4.1	Design and installation	196
4.3.4.2	Unstable liquids	196
Subsection 4.3.5 — Vent Piping for Aboveground Storage Tanks		
4.3.5.1	Materials and construction	196
4.3.5.2	Location of vent pipe outlets	197
4.3.5.3	Interconnection of vent piping	197
Subsection 4.3.6 — Openings Other than Vents in Aboveground Storage Tanks		
4.3.6.1	Provision of valves	197
4.3.6.2	Materials	197
4.3.6.3	Openings for liquid level measurements	198
4.3.6.4	Connections for filling and emptying	198
Subsection 4.3.7 — Secondary Containment for Aboveground Storage Tanks		
4.3.7.1	General	198
4.3.7.2	Construction	199
4.3.7.3	Capacity	199
4.3.7.4	Clearances	199
4.3.7.5	Access to storage tanks and ancillary equipment	200
4.3.7.6	Emergency venting	200
4.3.7.7	Leak detection	200
4.3.7.8	Drainage	200
4.3.7.9	Use of secondary containment	201
Subsection 4.3.8 — Installation of Underground Storage Tanks		
4.3.8.1	Location	201
4.3.8.2	Ground cover	201
4.3.8.3	Damage repair	202
4.3.8.4	Damage prevention	202
4.3.8.5	Installation	202
4.3.8.6	Leakage testing	202
4.3.8.7	Filling	202
4.3.8.8	Spillage	203
4.3.8.9	Anchorage	203
Subsection 4.3.9 — Corrosion Protection of Underground Steel Storage Tanks		
4.3.9.1	Corrosion protection	203
Subsection 4.3.10 — Vents for Underground Storage Tanks		
4.3.10.1	Vent design	203
4.3.10.2	Materials and construction	203
4.3.10.3	Installation	203

Table of Contents

4.3.10.4	Interconnection of vent pipes	204
	Subsection 4.3.11 — Openings Other than Vents in Underground Storage Tanks	
4.3.11.1	Connections	205
4.3.11.2	Openings for measuring liquid level	205
4.3.11.3	Fill piping and discharge piping	205
	Subsection 4.3.12 — Installation of Storage Tanks Inside Buildings	
4.3.12.1	Application	206
4.3.12.2	Occupancy	206
4.3.12.3	Maximum static head	206
4.3.12.4	Maximum quantities and location	206
4.3.12.5	Fire compartments	207
4.3.12.6	Mixed storage	207
4.3.12.7	Storage tanks outside storage rooms	208
4.3.12.8	Vents	208
4.3.12.9	Supports, foundations and anchorage	208
4.3.12.10	Bonding and grounding	208
	Subsection 4.3.13 — Rooms for Storage Tanks	
4.3.13.1	Design and construction	209
4.3.13.2	Clearances	209
4.3.13.3	Explosion venting	209
4.3.13.4	Hose stations and portable extinguishers	209
4.3.13.5	Placards	209
	Subsection 4.3.14 — Openings Other than Vents in Storage Tanks in Buildings	
4.3.14.1	Connections	210
4.3.14.2	Openings for liquid level measurement	210
	Subsection 4.3.15 — Leakage Testing of Storage Tanks	
4.3.15.1	Leakage testing	210
4.3.15.2	Retention of records	211
4.3.15.3	Remedial action	211
4.3.15.4	Pneumatic leakage tests	211
4.3.15.5	Liquid media leakage tests	212
	Subsection 4.3.16 — Leakage Detection of Storage Tanks	
4.3.16.1	Liquid level measurements	212
4.3.16.2	Continuous leakage detection	213
4.3.16.3	Corrective action	213
	Subsection 4.3.17 — Out of Service	
4.3.17.1	Underground storage tanks	213
4.3.17.2	Aboveground storage tanks	214
4.3.17.3	Disposal	214
4.3.17.4	Removal	214
4.3.17.5	Abandonment in place	215
4.3.17.6	Corrosion protection	215
	Section 4.4 — Piping and Transfer Systems	
	Subsection 4.4.1 — Application	
4.4.1.1	Application	215

Table of Contents

	Subsection 4.4.2 — Materials for Piping, Valves and Fittings	
4.4.2.1	Materials	215
4.4.2.2	Special materials	216
4.4.2.3	Underground piping system construction	216
	Subsection 4.4.3 — Corrosion Protection of Piping Systems	
4.4.3.1	Corrosion protection	216
	Subsection 4.4.4 — Identification of Piping Systems	
4.4.4.1	Identification	217
4.4.4.2	Documentation	217
	Subsection 4.4.5 — Joints in Piping Systems	
4.4.5.1	Threaded joints	217
4.4.5.2	Welded piping	217
4.4.5.3	Flanged joints	218
4.4.5.4	Bolting materials	218
4.4.5.5	Gaskets	218
4.4.5.6	Mechanical connections	218
	Subsection 4.4.6 — Leakage Testing of Piping Systems	
4.4.6.1	Leakage testing	218
4.4.6.2	Retention of records	218
4.4.6.3	Remedial action	219
4.4.6.4	Pneumatic leakage tests	219
4.4.6.5	Test pressures	219
4.4.6.6	Class I liquids as a test medium	219
4.4.6.7	Leakage detection	219
	Subsection 4.4.7 — Location and Arrangement of Piping	
4.4.7.1	Location	219
4.4.7.2	Supports for aboveground outdoor piping	220
4.4.7.3	Arrangement of aboveground outdoor piping	220
4.4.7.4	Underground piping	220
4.4.7.5	Installation of underground piping	221
4.4.7.6	Piping in service tunnels	221
4.4.7.7	Piping at entrances to buildings	221
4.4.7.8	Indoor piping	221
4.4.7.9	Piping in trenches	221
4.4.7.10	Overhead piping	222
4.4.7.11	Supports for overhead piping	222
4.4.7.12	Protection of pipe risers	222
4.4.7.13	Provision for expansion and contraction	222
	Subsection 4.4.8 — Valves in Piping Systems	
4.4.8.1	Design	223
4.4.8.2	Shut-off valves	223
4.4.8.3	Diaphragm valves	223
4.4.8.4	Globe valves	224
4.4.8.5	Indicating valves	224
4.4.8.6	Identification	224
	Subsection 4.4.9 — Heating of Piping Systems	
4.4.9.1	Design	224
4.4.9.2	Steam heating	224

Table of Contents

4.4.9.3	Electrical heating cables	224
4.4.9.4	Thermal electrical conduction heating	224
4.4.9.5	Open flames	225
Subsection 4.4.10 — Methods of Transfer in Piping Systems		
4.4.10.1	Location of outdoor pumps	225
4.4.10.2	Pump houses and pump rooms	225
4.4.10.3	Pits	225
4.4.10.4	Control switches	225
4.4.10.5	Hydraulic transfer systems	225
4.4.10.6	Inert gas transfer systems	226
4.4.10.7	Non-inert gas transfer	226
Subsection 4.4.11 — Operating Procedures for Piping Systems		
4.4.11.1	Procedures	227
4.4.11.2	Training	227
4.4.11.3	Emergency valves	227
4.4.11.4	Portable extinguishers	227
4.4.11.5	Visual inspections	227
4.4.11.6	Operational tests	227
4.4.11.7	Maintenance	228
4.4.11.8	Removal of piping	228
Section 4.5 — Fuel Dispensing Stations		
Subsection 4.5.1 — Storage, handling and use of flammable liquids and combustible liquids		
4.5.1.1	Storage, handling and use	228
Subsection 4.5.2 — Storage and Handling		
4.5.2.1	Outside aboveground storage tanks	229
4.5.2.2	Dispensing of Class I liquids	229
4.5.2.3	Storage tanks in buildings	229
4.5.2.4	Piping	229
4.5.2.5	Corrosion protection for piping	229
4.5.2.6	Piping supports and guards	229
4.5.2.7	Pits	230
Subsection 4.5.3 — Dispensing Systems		
4.5.3.1	Dispensers	230
4.5.3.2	Sumps	230
4.5.3.3	Location	230
4.5.3.4	Protection against collision damage	230
4.5.3.5	Marine fuel dispensing stations	230
Subsection 4.5.4 — Shut-Off Devices		
4.5.4.1	Location and identification	231
4.5.4.2	Self service outlets	231
4.5.4.3	Marine fuel dispensing stations	231
Subsection 4.5.5 — Delivery Hose and Nozzles		
4.5.5.1	Delivery hose	231
4.5.5.2	Hose nozzle valves	231
Subsection 4.5.6 — Remote Pumping Systems		
4.5.6.1	Application	232
4.5.6.2	Pumps and control equipment	232

Table of Contents

4.5.6.3	Emergency valves	232
4.5.6.4	Pump location	233
4.5.6.5	Leakage testing	233
4.5.6.6	Marine fuel dispensing stations	233
	Subsection 4.5.7 — Spill Control	
4.5.7.1	Spill control	234
	Subsection 4.5.8 — Supervision and Dispensing Procedures	
4.5.8.1	Attendants	234
4.5.8.2	Self-service outlets	234
4.5.8.3	Special dispensers	234
4.5.8.4	Card or key activated dispensers	235
4.5.8.5	Duties of attendants	235
4.5.8.6	Fuel dispensing procedures	236
4.5.8.7	Sources of ignition	236
4.5.8.8	Signs	236
	Subsection 4.5.9 — Leakage Detection	
4.5.9.1	Liquid level measurement	237
	Subsection 4.5.10 — Fire Prevention and Protection	
4.5.10.1	Portable extinguishers	237
4.5.10.2	Absorbent materials	237
	Section 4.6 — Bulk Plants	
	Subsection 4.6.1 — Application	
4.6.1.1	Application	237
	Subsection 4.6.2 — Storage	
4.6.2.1	Storage	237
4.6.2.2	Storage tanks	238
4.6.2.3	Hydraulic pressure shock	238
4.6.2.4	Container storage	238
4.6.2.5	Spill control	238
4.6.2.6	Fencing	238
	Subsection 4.6.3 — Dispensing	
4.6.3.1	Interconnection	238
4.6.3.2	Dispensing into vehicles	238
4.6.3.3	Dispensing and transfer inside buildings	239
4.6.3.4	Dispensing into metal containers or tanks	239
	Subsection 4.6.4 — Loading and Unloading Facilities	
4.6.4.1	Clearances	239
4.6.4.2	Multi-purpose facilities	239
4.6.4.3	Backflow preventers	239
4.6.4.4	Control valves	240
4.6.4.5	Bonding and grounding	240
4.6.4.6	Downspouts	240
	Subsection 4.6.5 — Fire Protection	
4.6.5.1	Portable extinguishers	240
	Subsection 4.6.6 — Spill Control	
4.6.6.1	Spill control	240

Table of Contents

	Section 4.7 — Piers and Wharves	
	Subsection 4.7.1 — Application	
4.7.1.1	Application	241
	Subsection 4.7.2 — General	
4.7.2.1	Clearances	241
4.7.2.2	Construction	241
	Subsection 4.7.3 — Storage Tanks	
4.7.3.1	Installation	241
	Subsection 4.7.4 — Piping, Valves and Fittings	
4.7.4.1	Installation and materials	241
4.7.4.2	Pipe supports	242
4.7.4.3	Guards	242
4.7.4.4	Flexible connections	242
4.7.4.5	Shut-off valves	242
4.7.4.6	Access openings for inspection	242
4.7.4.7	Identification	242
4.7.4.8	Leakage testing	242
	Subsection 4.7.5 — Bonding and Grounding	
4.7.5.1	Bonding and grounding	243
	Subsection 4.7.6 — Fire Protection	
4.7.6.1	Portable extinguishers	243
4.7.6.2	Training	243
	Subsection 4.7.7 — Bulk Transfer Stations	
4.7.7.1	Location	243
4.7.7.2	Leakage and spill control	243
4.7.7.3	Hose connections	244
	Subsection 4.7.8 — Cargo Hose	
4.7.8.1	Cargo hose	244
4.7.8.2	Maintenance and testing	244
4.7.8.3	Supports	244
	Subsection 4.7.9 — Cargo Pumps	
4.7.9.1	Design and installation	244
4.7.9.2	Pressure relief	244
4.7.9.3	Location	244
	Subsection 4.7.10 — Pump Houses	
4.7.10.1	Construction	245
4.7.10.2	Ventilation	245
	Subsection 4.7.11 — Transfer Operations	
4.7.11.1	Supervision	245
4.7.11.2	Bonding and grounding	245
4.7.11.3	Equipment	245
4.7.11.4	Spill control	246
	Section 4.8 — Process Plants	
	Subsection 4.8.1 — Application	
4.8.1.1	Application	246

Table of Contents

	Subsection 4.8.2 — Outdoor Processing Equipment	
4.8.2.1	Location	246
	Subsection 4.8.3 — Processing Buildings	
4.8.3.1	Explosion venting	247
4.8.3.2	Fire separations	247
4.8.3.3	Basements and pits	247
4.8.3.4	Ventilation	247
	Subsection 4.8.4 — Fire Prevention and Protection	
4.8.4.1	Spill and vapour control	247
4.8.4.2	Explosion protection	248
4.8.4.3	Fire prevention and protection	248
	Section 4.9 — Distilleries	
	Subsection 4.9.1 — Application	
4.9.1.1	Application	249
	Subsection 4.9.2 — General	
4.9.2.1	Building classification	249
	Subsection 4.9.3 — Storage Tanks and Containers	
4.9.3.1	Design, fabrication and testing	249
4.9.3.2	Supports, foundations and anchorage	249
4.9.3.3	Storage tank vents	250
	Subsection 4.9.4 — Storage	
4.9.4.1	Storage tanks, drums and barrels	250
4.9.4.2	Closed containers and storage aids	250
	Subsection 4.9.5 — Piping and Pumping Systems	
4.9.5.1	Design and installation	250
	Subsection 4.9.6 — Ventilation	
4.9.6.1	Ventilation	250
	Subsection 4.9.7 — Spill Control	
4.9.7.1	Spill control	250
	Subsection 4.9.8 — Fire Protection	
4.9.8.1	Portable extinguishers	251
4.9.8.2	Standpipe and hose systems	251
	Section 4.10 — Reserved	
4.10	. . . . .	251
	Section 4.11 — Tank Vehicles	
	Subsection 4.11.1 — Application	
4.11.1.1	Application	251
	Subsection 4.11.2 — General	
4.11.2.1	Portable extinguishers	251
4.11.2.2	Hot works	251
4.11.2.3	Parking inside buildings	252
4.11.2.4	Parking outside buildings	252
	Subsection 4.11.3 — Loading, Unloading and Dispensing from Tank Vehicles	
4.11.3.1	Loading and unloading	252
4.11.3.2	Ignition sources	252

Table of Contents

4.11.3.3	Static electric charges	252
4.11.3.4	Supervision	252
4.11.3.5	Multi-use compartments	252
4.11.3.6	Engine	253
4.11.3.7	Unloading	253
4.11.3.8	Dispensing into vehicles	253
	Section 4.12 — Laboratories	
	Subsection 4.12.1 — Application	
4.12.1.1	Application	253
4.12.1.2	. . . . .	253
	Subsection 4.12.2 — Separation	
4.12.2.1	Separation	253
	Subsection 4.12.3 — Maximum Quantities	
4.12.3.1	Maximum quantities	253
	Subsection 4.12.4 — Emergency Planning	
4.12.4.1	Fire safety plan	254
	Subsection 4.12.5 — Spill Control	
4.12.5.1	Spill control	254
	Subsection 4.12.6 — Electrical Equipment	
4.12.6.1	Electrical equipment	254
	Subsection 4.12.7 — Inspection and Maintenance	
4.12.7.1	Inspection and maintenance	254
	Subsection 4.12.8 — Ventilation	
4.12.8.1	Scope and application	255
4.12.8.2	Ventilation	255
4.12.8.3	Power-ventilated enclosure	255
4.12.8.4	Enclosure exhaust ventilation	256
4.12.8.5	Enclosure construction	256
	Subsection 4.12.9 — Refrigerated Storage	
4.12.9.1	Refrigerated storage	257
	Subsection 4.12.10 — Existing Laboratories in Basements	
4.12.10.1	Existing laboratories in basements	257
	Part 5 — Hazardous Materials, Processes and Operations	
	Section 5.1 — General	
	Subsection 5.1.1 — Application	
5.1.1.1	Application	258
	Subsection 5.1.2 — Means of Egress	
5.1.2.1	Means of egress	258
	Subsection 5.1.3 — Electrical Installations	
5.1.3.1	Electrical installations	258
	Subsection 5.1.4 — Ventilation	
5.1.4.1	Ventilation requirements	258
	Section 5.2 — Explosives, Fireworks and Pyrotechnics	
	Subsection 5.2.1 — General	
5.2.1.1	Interpretation	258

Table of Contents

5.2.1.2	Manufacture, storage, handling, transportation, sale and use	258
5.2.1.3	Fire emergency procedures	259
5.2.1.4	Handling and discharge of fireworks and pyrotechnics	259
	Subsection 5.2.2 — Fireworks and Pyrotechnics	
5.2.2.1	Manufacture, storage, transportation and sale	259
5.2.2.2	Handling and discharge	259
	Section 5.3 — Reserved	
5.3	. . . . .	259
	Section 5.4 — Cellulose Nitrate Plastics	
	Subsection 5.4.1 — Displays	
5.4.1.1	Advertising displays	260
5.4.1.2	Lighting fixtures	260
	Subsection 5.4.2 — Manufacture	
5.4.2.1	Storage of raw materials	260
5.4.2.2	Storage in cabinets	260
5.4.2.3	Storage in vented vaults	260
5.4.2.4	Accumulation of materials in workrooms	260
5.4.2.5	Stationing of operators	260
5.4.2.6	Storage in work areas	260
5.4.2.7	Storage limitations in workrooms	261
5.4.2.8	Waste material storage	261
	Subsection 5.4.3 — Storage of Finished Products	
5.4.3.1	Ventilation	261
5.4.3.2	Heating appliance restrictions	261
5.4.3.3	Storage vaults	261
5.4.3.4	Storage up to 3400 kg	261
5.4.3.5	Storage in excess of 3400 kg	261
	Subsection 5.4.4 — Cellulose Nitrate Motion Picture Film	
5.4.4.1	Restricted use	262
5.4.4.2	Storage and handling	262
5.4.4.3	Storage when not in use	262
	Subsection 5.4.5 — Fire Protection	
5.4.5.1	Sprinkler systems	262
	Section 5.5 — Reserved	
5.5	. . . . .	262
	Section 5.6 — Compressed Gas Cylinders	
	Subsection 5.6.1 — General	
5.6.1.1	Alternative protection measures	262
5.6.1.2	Protection against mechanical damage	263
5.6.1.3	Acetylene cylinders	263
5.6.1.4	Valve damage	263
5.6.1.5	Temperature limitations	264
5.6.1.6	Indoor storage	264
5.6.1.7	Oxygen cylinders	264
	Subsection 5.6.2 — Storage	
5.6.2.1	Outdoor storage of cylinders	264
5.6.2.2	Fencing	264

Table of Contents

5.6.2.3	Clearances from building openings	264
5.6.2.4	Indoor storage of flammable compressed gases	265
5.6.2.5	. . . . .	266
5.6.2.6	Poisonous compressed gas	266
5.6.2.7	Reactive gases	266
5.6.2.8	Signs	267
	Section 5.7 — Reserved	
5.7	. . . . .	267
	Section 5.8 — Reserved	
5.8	. . . . .	267
	Section 5.9 — Reserved	
5.9	. . . . .	267
	Section 5.10 — Combustible Dust Producing Processes	
	Subsection 5.10.1 — Dust Collection	
5.10.1.1	Application	267
5.10.1.2	Accumulations of combustible dusts	267
5.10.1.3	Dust containment	268
5.10.1.4	Construction of dust-collecting equipment	268
5.10.1.5	Location	268
5.10.1.6	Grounding	268
5.10.1.7	Explosion venting	269
5.10.1.8	Explosion prevention system	269
5.10.1.9	Interlocks	269
5.10.1.10	Air velocity	269
5.10.1.11	Vent stacks	269
5.10.1.12	Separators	269
5.10.1.13	Grounding	269
5.10.1.14	Ignition sources prohibited	270
	Subsection 5.10.2 — Woodworking Operations	
5.10.2.1	Exhaust systems	270
5.10.2.2	Operations that produce sparks or combustible vapours	270
5.10.2.3	Disposal	270
5.10.2.4	Portable extinguishers	270
	Section 5.11 — Hot Surface Applications	
	Subsection 5.11.1 — Application	
5.11.1.1	Application	270
5.11.1.2	[Repealed O. Reg. 256/14, s. 213.]	270
5.11.1.3	[Repealed O. Reg. 256/14, s. 213.]	270
5.11.1.4	[Repealed O. Reg. 256/14, s. 213.]	270
5.11.1.5	[Repealed O. Reg. 256/14, s. 213.]	270
5.11.1.6	[Repealed O. Reg. 256/14, s. 213.]	271
	Subsection 5.11.2 — General	
5.11.2.1	Exposed combustible materials	271
5.11.2.2	Open flame torches	271
5.11.2.3	Bitumen kettles	271
5.11.2.4	. . . . .	272
5.11.2.5	Firewatch	272
5.11.2.6	Portable extinguishers	272

Table of Contents

Section 5.12 — Spray Applications Using Flammable and Combustible Materials

Subsection 5.12.1 — Application and Separation

5.12.1.1 Application 273

5.12.1.2 Separation for spray operations 273

Subsection 5.12.2 — Construction

5.12.2.1 General 273

5.12.2.2 Baffle plates 273

5.12.2.3 Overspray collection 273

5.12.2.4 Fan blades and casings 274

Subsection 5.12.3 — Ventilation

5.12.3.1 Ventilation 274

5.12.3.2 Exhaust for spray booths 274

5.12.3.3 Exhaust for electrostatic spraying 274

5.12.3.4 Combined ducting 274

5.12.3.5 Exhaust air 274

5.12.3.6 Monitoring air velocity 275

Subsection 5.12.4 — Exhaust Ducts

5.12.4.1 Duct support and construction 275

5.12.4.2 Clearances 275

5.12.4.3 Collars 275

5.12.4.4 Access doors 275

5.12.4.5 Exhaust outlet locations 275

Subsection 5.12.5 — Electrical Equipment

5.12.5.1 Electrical equipment 276

5.12.5.2 Motors for exhaust fans 276

5.12.5.3 Grounding 276

Subsection 5.12.6 — Flammable Liquids and Combustible Liquids

5.12.6.1 Storage and handling 276

5.12.6.2 Paint storage 276

5.12.6.3 Thinners and solvents 276

5.12.6.4 Pump discharge relief valves 276

Subsection 5.12.7 — Control of Fire Hazards

5.12.7.1 Interlocks 276

5.12.7.2 Cleaning and residue disposal 277

5.12.7.3 Filter pads and rolls 277

5.12.7.4 277

5.12.7.5 Heating equipment 277

5.12.7.6 Ignition sources 277

Subsection 5.12.8 — Fire Protection Equipment

5.12.8.1 Portable extinguishers 277

5.12.8.2 Sprinkler installations 277

5.12.8.3 Sprinkler head protection 278

Subsection 5.12.9 — Drying Operations

5.12.9.1 Spray booths used for drying 278

5.12.9.2 Location of equipment 278

5.12.9.3 Location near spraying area 278

5.12.9.4 Spray booths used for drying 278

Table of Contents

	Subsection 5.12.10 — Electrostatic Spraying	
5.12.10.1	Application	279
5.12.10.2	Equipment location	279
5.12.10.3	Interlocks	279
5.12.10.4	Insulators	279
5.12.10.5	Clearances	279
5.12.10.6	Drip plates and screens	279
5.12.10.7	Insulating and grounding	279
5.12.10.8	Automatic grounding	280
5.12.10.9	Operating distances	280
5.12.10.10	Distance to processing areas	280
5.12.10.11	Surface temperatures	280
5.12.10.12	Precautions against shock	280
5.12.10.13	Spray gun energy supply	280
5.12.10.14	Spray gun operation	280
5.12.10.15	Grounding	280
5.12.10.16	Paint accumulations	280
5.12.10.17	Warning signs	280
5.12.10.18	Fixed extinguishing equipment	280
	Subsection 5.12.11 — Dry Powder-Coating Using Spray Guns	
5.12.11.1	Application and location	281
5.12.11.2	Location of electrical equipment	281
5.12.11.3	Working temperatures	281
5.12.11.4	Grounding	281
5.12.11.5	Separators	281
5.12.11.6	Recovery systems	281
5.12.11.7	Vacuum cleaning	281
5.12.11.8	Contact points	281
5.12.11.9	Hangers	281
5.12.11.10	Smoking prohibited	282
	Section 5.13 — Dip Tanks	
	Subsection 5.13.1 — Location	
5.13.1.1	Room design	282
5.13.1.2	Prohibition for basements	282
	Subsection 5.13.2 — Construction	
5.13.2.1	Floors	282
5.13.2.2	Materials	282
5.13.2.3	Height above floor	282
5.13.2.4	Cover construction	282
5.13.2.5	Cover design	282
5.13.2.6	Cover maintenance	282
	Subsection 5.13.3 — Overflow and Drain Pipes	
5.13.3.1	Liquid levels	283
5.13.3.2	Overflow pipes	283
5.13.3.3	Location of overflow	283
5.13.3.4	Overflow size	283
5.13.3.5	Overflow connection	283
5.13.3.6	Piping connections	283
5.13.3.7	Bottom drains	283

Table of Contents

5.13.3.8	Salvage tank	283
5.13.3.9	Drain size	284
5.13.3.10	Manual operation of bottom drains	284
5.13.3.11	Automatic pumps	284
5.13.3.12	Pump for salvage tank	284
	Subsection 5.13.4 — Salvage Tanks	
5.13.4.1	Use	284
5.13.4.2	Capacity	284
5.13.4.3	Location	284
5.13.4.4	Vent pipes	284
	Subsection 5.13.5 — Control of Fire Hazards	
5.13.5.1	Ventilation	285
5.13.5.2	Interlock for dipping conveyor	285
5.13.5.3	Interlock for heating	285
5.13.5.4	Conveyor systems	285
5.13.5.5	Purging interlocks	285
5.13.5.6	Electrical installations	285
5.13.5.7	Flammable and combustible liquids	285
5.13.5.8	Smoking and ignition sources prohibited	285
5.13.5.9	Signs prohibiting smoking	285
	Subsection 5.13.6 — Fire Protection	
5.13.6.1	Automatic sprinklers	286
5.13.6.2	Tank covers and extinguishing systems	286
5.13.6.3	Flammable liquids or combustible liquids	286
5.13.6.4	Portable extinguishers	286
	Section 5.14 — Special Processes Involving Flammable and Combustible Materials	
	Subsection 5.14.1 — Quench Tanks	
5.14.1.1	Location	286
5.14.1.2	Hoods and vents	286
5.14.1.3	Vent design	286
5.14.1.4	High temperature limit switches	286
5.14.1.5	Electrical installations	287
5.14.1.6	Air pressure	287
5.14.1.7	Working temperatures	287
	Subsection 5.14.2 — Flow-Coating Operations	
5.14.2.1	Application	287
5.14.2.2	Supply	287
5.14.2.3	[Repealed O. Reg. 256/14, s. 234.]	287
5.14.2.4	[Repealed O. Reg. 256/14, s. 234.]	287
5.14.2.5	Supply	287
	Subsection 5.14.3 — Roll Coating Processes	
5.14.3.1	Application	287
5.14.3.2	Grounding	288
5.14.3.3	Location	288
	Subsection 5.14.4 — Electrostatic Detearing Processes	
5.14.4.1	Application	288
5.14.4.2	Equipment location	288

Table of Contents

5.14.4.3	Interlocks	288
5.14.4.4	Insulators	288
5.14.4.5	Clearances	288
5.14.4.6	Drip plates and screens	289
5.14.4.7	Insulating and grounding	289
5.14.4.8	Automatic grounding	289
5.14.4.9	Precautions against shock	289
5.14.4.10	[Repealed O. Reg. 256/14, s. 236.]	289
5.14.4.11	[Repealed O. Reg. 256/14, s. 236.]	289
5.14.4.12	[Repealed O. Reg. 256/14, s. 236.]	289
5.14.4.13	[Repealed O. Reg. 256/14, s. 236.]	289
5.14.4.14	[Repealed O. Reg. 256/14, s. 236.]	289
5.14.4.15	[Repealed O. Reg. 256/14, s. 236.]	289
5.14.4.16	[Repealed O. Reg. 256/14, s. 236.]	289
5.14.4.17	[Repealed O. Reg. 256/14, s. 236.]	289
	Subsection 5.14.5 — Automobile Undercoating	
5.14.5.1	Spray operations	289
5.14.5.2	Undercoating materials	289
5.14.5.3	Ignition sources	290
5.14.5.4	Electrical installations	290
5.14.5.5	Storage and handling	290
5.14.5.6	Portable extinguishers	290
5.14.5.7	Refuse disposal	290
	Subsection 5.14.6 — Dry Powder-Coating Using Fluidized Beds	
5.14.6.1	Application and location	290
5.14.6.2	Location of electrical equipment	291
5.14.6.3	Working temperatures	291
5.14.6.4	Grounding	291
5.14.6.5	Electrical discharges	291
5.14.6.6	Handling of spark-producing materials	291
5.14.6.7	Recovery systems	291
5.14.6.8	Waste dust removal	291
5.14.6.9	Contact points	292
5.14.6.10	Hangers	292
5.14.6.11	Smoking prohibited	292
	Subsection 5.14.7 — Organic Peroxides and Dual Component Coatings	
5.14.7.1	Location of spraying operations	292
5.14.7.2	Initiator storage	292
5.14.7.3	Handling equipment	292
5.14.7.4	Containers	292
5.14.7.5	Pressure tank inserts	292
5.14.7.6	Elimination of foreign materials	292
	Subsection 5.14.8 — Floor Finishing	
5.14.8.1	Application	292
5.14.8.2	Operations below grade	293
5.14.8.3	Public access	293
5.14.8.4	Ventilation	293
5.14.8.5	Prohibited activities during flammable liquid application	293
5.14.8.6	Waste receptacles	293

Table of Contents

	Subsection 5.14.9 — Bowling Alleys	
5.14.9.1	Application	293
5.14.9.2	Notification	293
5.14.9.3	Floor finishing	293
5.14.9.4	Pin refinishing	293
5.14.9.5	Smoking prohibited	293
5.14.9.6	Flammable and combustible liquids	294
5.14.9.7	. . . . .	294
	Subsection 5.14.10 — Drycleaning and Dyeing Plants	
5.14.10.1	Application	294
5.14.10.2	Use and storage of flammable liquids	294
	Section 5.15 — Radioactive Nuclear Substances	
	Subsection 5.15.1 — Application	
5.15.1.1	Application	294
	Subsection 5.15.2 — Storage	
5.15.2.1	. . . . .	295
5.15.2.2	Storage	295
5.15.2.3	Prohibited combination	295
	Subsection 5.15.3 — Emergency Procedures	
5.15.3.1	Fire emergency procedures	295
	Section 5.16 — Fumigation and Thermal Insecticidal Fogging	
	Subsection 5.16.1 — Application	
5.16.1.1	Application	295
	Subsection 5.16.2 — Safety Precautions	
5.16.2.1	Notification of fire department	296
5.16.2.2	Notification of adjacent premises	296
5.16.2.3	Ignition sources	296
5.16.2.4	Power supply	296
5.16.2.5	Air temperature	296
5.16.2.6	Breathing apparatus	296
5.16.2.7	Restricted entrance	296
	Section 5.17 — Hot Works	
	Subsection 5.17.1 — Application	
5.17.1.1	Application	297
5.17.1.2	Same	297
	Subsection 5.17.2 — Use and Maintenance of Equipment	
5.17.2.1	Fuel gases	297
5.17.2.2	Piping	297
5.17.2.3	Cylinder storage	297
5.17.2.4	Cylinder caps and valves	297
5.17.2.5	Damaged equipment	297
5.17.2.6	Equipment inspection	297
5.17.2.7	Equipment not in use	298
5.17.2.8	Lubrication	298
	Subsection 5.17.3 — Prevention of Fires	
5.17.3.1	Location of operations	298
5.17.3.2	Work adjacent to piping	298

Table of Contents

5.17.3.3	Work on containers	298
Section 5.18 — Industrial Ovens for Baking and Drying Processes		
Subsection 5.18.1 — Application		
5.18.1.1	Application	299
Subsection 5.18.2 — Location		
5.18.2.1	Prohibited location	299
Subsection 5.18.3 — Construction		
5.18.3.1	Oven materials	299
5.18.3.2	Limiting temperature on combustible construction	299
5.18.3.3	Explosion vents	299
5.18.3.4	Duct and stack restrictions	299
Subsection 5.18.4 — Ventilation		
5.18.4.1	Oven ventilation	300
5.18.4.2	Fan interlocks	300
5.18.4.3	Continuous-process oven interlocks	300
Subsection 5.18.5 — Maintenance		
5.18.5.1	Cleaning of ovens and ductwork	300
Subsection 5.18.6 — Fire Protection		
5.18.6.1	Portable extinguishers	300
5.18.6.2	Standpipe and hose systems	300
5.18.6.3	Fire access doors	301
5.18.6.4	Automatic fire protection	301
Part 6 — Fire Protection Equipment		
Section 6.1 — General		
Subsection 6.1.1 — Application		
6.1.1.1	Application	301
6.1.1.2	Exception	301
Section 6.2 — Portable Extinguishers		
Subsection 6.2.1 — General		
6.2.1.1	. . . . .	301
6.2.1.2	Maintenance	301
6.2.1.3	Location	301
6.2.1.4	. . . . .	302
6.2.1.5	Signs	302
6.2.1.6	Proximity to fire hazards	302
6.2.1.7	Corrosive atmosphere	302
6.2.1.8	Temperature range requirements	302
6.2.1.9	Mounting brackets	302
Subsection 6.2.2 — Classification		
6.2.2.1	Rating of portable extinguishers	302
Subsection 6.2.3 — Selection Requirements		
6.2.3.1	Multiple ratings	302
Subsection 6.2.4 — Installation Requirements		
6.2.4.1	Where portable extinguishers required	303
6.2.4.2	Distance above floor	303
6.2.4.3	. . . . .	303

Table of Contents

6.2.4.4	Operating instructions	303
	Subsection 6.2.5 — Grading of Hazards	
6.2.5.1	Light hazard occupancy	303
6.2.5.2	Ordinary hazard occupancy	303
6.2.5.3	Extra hazard occupancy	303
	Subsection 6.2.6 — Distribution	
6.2.6.1	. . . . .	303
6.2.6.2	Building protection	304
6.2.6.3	Occupancy protection	304
6.2.6.4	Extinguishers for Class A fires	304
6.2.6.5	. . . . .	304
6.2.6.6	Hose stations in lieu of extinguishers	305
6.2.6.7	Extinguishers for Class B fires	305
6.2.6.8	. . . . .	305
6.2.6.9	Extinguishers for flammable and combustible liquids	305
6.2.6.10	. . . . .	305
6.2.6.11	Supplementary protection	306
6.2.6.12	Extinguishers for commercial cooking equipment	306
6.2.6.13	Extinguishers for Class C fires	306
6.2.6.14	Distribution	306
6.2.6.15	. . . . .	306
6.2.6.16	Extinguishers for combustible metal fires	306
	Subsection 6.2.7 — Inspection, Testing and Maintenance	
6.2.7.1	. . . . .	306
6.2.7.2	Examination	307
6.2.7.3	Defective extinguishers	307
6.2.7.4	Tags	307
6.2.7.5	Maintenance records	307
6.2.7.6	Maintenance after use	307
6.2.7.7	. . . . .	307
6.2.7.8	. . . . .	307
6.2.7.9	Test labels	307
	Section 6.3 — Alarm and Voice Communication Systems for Life Safety	
	Subsection 6.3.1 — General	
6.3.1.1	Access	308
6.3.1.2	Monitoring	308
6.3.1.3	. . . . .	308
6.3.1.4	. . . . .	309
6.3.1.5	Signal silencing	309
6.3.1.6	Disconnect switches	309
6.3.1.7	Relocating manual pull stations	309
6.3.1.8	Repairs and alterations to fire alarm systems	309
	Subsection 6.3.2 — Check, Inspect and Test	
6.3.2.1	Obligation to ensure compliance	310
6.3.2.2	Fire alarm systems	310
6.3.2.3	Central alarm and control facilities	311
6.3.2.4	Voice communication systems	311
6.3.2.5	. . . . .	311
6.3.2.6	Interconnected smoke alarms	311

Table of Contents

Subsection 6.3.3 — Smoke Alarms — Maintenance and Testing		
6.3.3.1	Application	312
6.3.3.2	Landlord is responsible	312
6.3.3.3	Duty to maintain in operating condition	313
6.3.3.4	Maintenance instructions to be given to tenant	313
6.3.3.5	Tenant to notify landlord	313
6.3.3.6	Disabling prohibited	313
6.3.3.7	Replacement	313
6.3.3.8	Testing	314
Subsection 6.3.4 — Carbon Monoxide Alarms — Maintenance and Testing		
6.3.4.1	Application	314
6.3.4.2	Landlord is responsible	314
6.3.4.3	Duty to maintain in operating condition	314
6.3.4.4	Maintenance instructions to be given to tenant	314
6.3.4.5	Tenant to notify landlord	314
6.3.4.6	Disabling prohibited	315
6.3.4.7	Replacement in certain buildings	315
6.3.4.8	Testing	315
Section 6.4 — Standpipe and Hose Systems		
Subsection 6.4.1 — General		
6.4.1.1	. . . . .	316
6.4.1.2	. . . . .	316
6.4.1.3	Fire department connections	316
6.4.1.4	Out of service requirements	316
6.4.1.5	Hotels	316
6.4.1.6	Inspection, testing and maintenance	316
Subsection 6.4.2 — Maintenance and Inspection of Hose Stations and Equipment		
6.4.2.1	Hose stations	317
6.4.2.2	. . . . .	317
6.4.2.3	. . . . .	317
6.4.2.4	Hose valves	317
6.4.2.5	Hose	317
6.4.2.6	Standpipe identification	317
6.4.2.7	Hose cabinets	318
Subsection 6.4.3 — Checking and Testing		
6.4.3.1	Standpipe systems	318
6.4.3.2	Hydrostatic test	318
6.4.3.3	Fire department connections	318
6.4.3.4	Underground mains	318
6.4.3.5	Flow and pressure tests	318
6.4.3.6	Dry standpipes	318
6.4.3.7	Hotels	319
Section 6.5 — Sprinkler Systems		
Subsection 6.5.1 — General		
6.5.1.1	Repair, replacement, alterations, inspection, testing and maintenance	319

Table of Contents

6.5.1.2	.....	319
6.5.1.3	Closing sprinkler control valves	319
6.5.1.4	Changes in equipment or occupancy	319
6.5.1.5	Obstructions	320
6.5.1.6	.....	320
6.5.1.7	Testing of underground mains	320
6.5.1.8	Records	321
	Subsection 6.5.2 — Sprinkler System Shutdowns	
6.5.2.1	Notification	321
6.5.2.2	Sprinkler control valves and water supplies	321
6.5.2.3	Schedule of temporary shutdowns	322
6.5.2.4	Programmed repairs	322
6.5.2.5	Additional protection during shutdowns	322
6.5.2.6	Identification of closed valves	322
	Subsection 6.5.3 — Checking	
6.5.3.1	Pipe hangers	322
6.5.3.2	Pressure maintenance	322
6.5.3.3	Protection against freezing	322
6.5.3.4	Sprinkler heads	322
6.5.3.5	[Repealed O. Reg. 256/14, s. 283.]	322
	Subsection 6.5.4 — Inspection	
6.5.4.1	Winter damage	322
6.5.4.2	Test flushing	323
6.5.4.3	Priming water level	323
6.5.4.4	Fire department connections	323
6.5.4.5	Sprinkler control valves	323
	Subsection 6.5.5 — Testing	
6.5.5.1	Notification	323
6.5.5.2	Alarm testing	323
6.5.5.3	Water flow alarm tests	323
6.5.5.4	Trip testing valves	324
6.5.5.5	Water supply	324
6.5.5.6	.....	324
6.5.5.7	Electrical supervision signal testing	324
	Subsection 6.5.6 — Maintenance	
6.5.6.1	Sprinkler guards	324
6.5.6.2	Valve access	324
6.5.6.3	Valve pits	324
6.5.6.4	Precautions against freezing	324
6.5.6.5	Spare sprinkler heads	325
6.5.6.6	Protection for combustible sprinkler piping	325
	Section 6.6 — Water Supplies for Fire Protection	
	Subsection 6.6.1 — General	
6.6.1.1	.....	325
6.6.1.2	Valve inspections	325
6.6.1.3	Ice accumulations	326
6.6.1.4	Antifreeze pumping systems	326
6.6.1.5	Inspection, testing and maintenance	326

Table of Contents

	Subsection 6.6.2 — Tanks	
6.6.2.1	Tank inspections	326
6.6.2.2	Tank heating equipment	326
6.6.2.3	Water temperature checks	326
6.6.2.4	Tank enclosure temperature checks	326
6.6.2.5	Check for corrosion	327
6.6.2.6	Inspection for sediment	327
6.6.2.7	Inspection of cathodic protection	327
6.6.2.8	Water level in gravity tanks	327
6.6.2.9	Gravity tanks	327
6.6.2.10	. . . . .	327
6.6.2.11	. . . . .	327
6.6.2.12	Pressure tanks	327
6.6.2.13	. . . . .	327
	Subsection 6.6.3 — Fire Pumps and Reservoirs	
6.6.3.1	Fire pump reservoirs	328
6.6.3.2	Pump room temperature	328
6.6.3.3	Inspection of fire pumps	328
6.6.3.4	Internal combustion engine inspection	328
6.6.3.5	Fire pump flow tests	328
6.6.3.6	Hotels	328
	Subsection 6.6.4 — Hydrants	
6.6.4.1	Hydrants	328
6.6.4.2	. . . . .	328
6.6.4.3	. . . . .	328
	Subsection 6.6.5 — Inspection of Hydrants	
6.6.5.1	. . . . .	328
6.6.5.2	. . . . .	328
6.6.5.3	. . . . .	329
6.6.5.4	. . . . .	329
6.6.5.5	. . . . .	329
6.6.5.6	Hydrant water flow	329
6.6.5.7	. . . . .	329
6.6.5.8	. . . . .	329
	Subsection 6.6.6 — Uniform Marking of Hydrants	
6.6.6.1	Hydrant marking	329
	Section 6.7 — Emergency Power Systems	
	Subsection 6.7.1 — General	
6.7.1.1	. . . . .	329
6.7.1.2	Instructions for switching and starting	330
6.7.1.3	Inspection and testing	330
6.7.1.4	Fuel supply	330
6.7.1.5	. . . . .	330
	Section 6.8 — Special Fire Suppression Systems	
	Subsection 6.8.1 — Installation	
6.8.1.1	. . . . .	330
	Subsection 6.8.2 — Inspection and Maintenance	
6.8.2.1	. . . . .	331

Table of Contents

6.8.2.2	Test records	331
6.8.2.3	Container maintenance	331
6.8.2.4	Discharge outlets	332
6.8.2.5	Piping	332
6.8.2.6	Replacement equipment	332
Section 6.9 — Decommissioning		
Subsection 6.9.1 — General		
6.9.1.1	. . . . .	332
Part 7 — Checking, Inspection, Testing and Maintenance of Fire Emergency Systems in High Buildings		
Section 7.1 — General		
Subsection 7.1.1 — General		
7.1.1.1	Application	332
7.1.1.2	Requirements	332
7.1.1.3	[Repealed O. Reg. 256/14, s. 294.]	332
Section 7.2 — Checking, Inspection, Testing and Maintenance of Certain Fire Emergency Systems		
Subsection 7.2.1 — Intervals Between Tests		
7.2.1.1	Intervals between tests	333
7.2.1.2	[Repealed O. Reg. 256/14, s. 296.]	333
Subsection 7.2.2 — Elevators		
7.2.2.1	Testing	333
Subsection 7.2.3 — Venting to Aid Fire Fighting		
7.2.3.1	Inspection	333
Subsection 7.2.4 — Central Alarm and Control Facilities and Voice Communication Systems for Life Safety		
7.2.4.1	. . . . .	334
Subsection 7.2.5 — Maintenance		
7.2.5.1	Maintenance of certain fire emergency systems	334
Section 7.3 — Inspection, Testing and Maintenance of Smoke Control Equipment		
Subsection 7.3.1 — General		
7.3.1.1	. . . . .	335
7.3.1.2	. . . . .	335
7.3.1.3	. . . . .	335
Part 8 — Demolition		
Section 8.1 — General		
Subsection 8.1.1 — Application		
8.1.1.1	Application	335
Subsection 8.1.2 — Requirements		
8.1.2.1	Building services	336
8.1.2.2	Firewatch	336
8.1.2.3	Storage of combustibles	337
8.1.2.4	Burning of rubbish	337
8.1.2.5	Hot work equipment	337

Table of Contents

8.1.2.6	Standpipe systems	337
8.1.2.7	Access for fire fighting	338
8.1.2.8	Portable extinguishers	338
8.1.2.9	Smoking prohibited	338
8.1.2.10	Ignition sources	338
8.1.2.11	Temporary enclosures	339
8.1.2.12	Provisions for egress	339
8.1.2.13	Fire warning	339
8.1.2.14	Safety of tanks, piping and machinery reservoirs at demolition sites	339
Part 9 — Retrofit		
Section 9.1 — General		
Subsection 9.1.1 — General		
9.1.1.1	Scope	339
9.1.1.2	Compliance	340
9.1.1.3	Approved alternatives	340
Subsection 9.1.2 — Application		
9.1.2.1	Application	340
9.1.2.2	Exemptions	340
Subsection 9.1.3 — Schedule of Compliance		
9.1.3.1	Compliance time for health care facilities, care occupancies and retirement homes	341
9.1.3.2	Extension of time	341
Subsection 9.1.4 — Life Safety Study		
9.1.4.1	Life Safety Study	341
9.1.4.2	Contents	341
9.1.4.3	Signature and seal	342
9.1.4.4	Time schedule	342
9.1.4.5	Extension of time	342
9.1.4.6	Extension following Order	342
9.1.4.7	Review	343
9.1.4.8	Record	343
Section 9.2 — Assembly Occupancies		
Subsection 9.2.1 — Application and General		
9.2.1.1	Assembly occupancies	344
9.2.1.2	Exemption for educational facilities and hotels	344
9.2.1.3	Definitions	344
Subsection 9.2.2 — Containment		
9.2.2.1	Fire separations between major occupancies	345
9.2.2.2	Protection of openings in fire separations	345
9.2.2.3	Fire separations for hazardous areas	345
9.2.2.4	Interior finishes	346
Subsection 9.2.3 — Means of Egress		
9.2.3.1	Occupant load determination	346
9.2.3.2	Access to exits; number and location	346
9.2.3.3	Access to exits	347
9.2.3.4	Minimum number of exits	347

Table of Contents

9.2.3.5	Door swing	347
9.2.3.6	Number of exits	347
9.2.3.7	Total width	347
9.2.3.8	. . . . .	347
9.2.3.9	. . . . .	348
9.2.3.10	Fire escapes permitted	348
9.2.3.11	Fire escape construction	348
9.2.3.12	Emergency lighting	348
9.2.3.13	Exit signs	348
9.2.3.14	. . . . .	348
9.2.3.15	Separation of exits	348
9.2.3.16	Exits through lobbies	348
9.2.3.17	Ancillary rooms	349
9.2.3.18	. . . . .	349
	Subsection 9.2.4 — Fire Alarm and Detection	
9.2.4.1	Fire alarm systems	349
	Subsection 9.2.5 — Suppression	
9.2.5.1	Access for fire fighting	349
9.2.5.2	Sprinkler systems	349
	Section 9.3 — Boarding, Lodging and Rooming Houses	
	Subsection 9.3.1 — Application and General	
9.3.1.1	Application	351
9.3.1.2	Exemption for MCSS residences and hotels	352
9.3.1.3	Definitions	352
	Subsection 9.3.2 — Containment	
9.3.2.1	. . . . .	352
9.3.2.2	Floor assemblies	352
9.3.2.3	Basement fire separations	352
9.3.2.4	Walls separating bedrooms	352
9.3.2.5	Furnace room separations	352
9.3.2.6	Combustion air	353
	Subsection 9.3.3 — Means of Egress	
9.3.3.1	Number of exits	353
9.3.3.2	Acceptable exits	353
9.3.3.3	. . . . .	354
9.3.3.4	Fire escapes	354
9.3.3.5	Protection of exits	354
9.3.3.6	Interior stairways	354
9.3.3.7	. . . . .	354
9.3.3.8	Protection of openings in fire separations	354
9.3.3.9	. . . . .	355
9.3.3.10	Exit signs	355
9.3.3.11	Interior finishes	355
9.3.3.12	Illumination of egress	355
9.3.3.13	Emergency lighting	355
	Subsection 9.3.4 — Fire Alarm and Detection	
9.3.4.1	Fire alarm requirements	355
9.3.4.2	. . . . .	356

Table of Contents

9.3.4.3	.....	356
9.3.4.4	.....	356
	Subsection 9.3.5 — Suppression	
9.3.5.1	Portable extinguishers	356
	Section 9.4 — Health Care Facilities	
	Subsection 9.4.1 — Application and General	
9.4.1.1	Application	357
9.4.1.2	Definitions	357
	Subsection 9.4.2 — Containment	
9.4.2.1	Construction	357
9.4.2.2	Combustible construction up to 2 storeys	357
9.4.2.3	Combustible construction up to 4 storeys	358
9.4.2.4	All other buildings	358
9.4.2.5	Fire separations between occupancies	358
9.4.2.6	Fire separations between bedrooms and corridors	359
9.4.2.7	Safe areas of refuge	359
9.4.2.8	Protection of openings in fire separations	360
9.4.2.9	Latches on bedroom doors	360
9.4.2.10	Fuel-fired appliance service rooms	360
9.4.2.11	Combustion air	361
9.4.2.12	Transformer vaults	361
9.4.2.13	Vertical service spaces	361
9.4.2.14	Refuse and linen chutes	361
9.4.2.15	Incinerator rooms	361
	Subsection 9.4.3 — Means of Egress	
9.4.3.1	Access to exits	361
9.4.3.2	Number of exits	362
9.4.3.3	Stairway separations	362
9.4.3.4	Door swing	362
9.4.3.5	Exit signs	362
9.4.3.6	Fire escapes	362
9.4.3.7	Emergency lighting	362
	Subsection 9.4.4 — Fire Alarm and Detection	
9.4.4.1	Fire alarm requirements	363
9.4.4.2	.....	363
9.4.4.3	Signals to fire department	363
9.4.4.4	Shutdown of air handling systems	363
	Subsection 9.4.5 — Suppression	
9.4.5.1	Access for fire fighting	363
9.4.5.2	Sprinkler systems	364
9.4.5.3	Firefighters' elevators	364
9.4.5.4	Voice communication systems	364
9.4.5.5	Sprinkler systems	364
	Section 9.5 — Buildings Up to and Including 6 Storeys in Building Height with Residential Occupancies	
	Subsection 9.5.1 — Application and General	
9.5.1.1	Application	365
9.5.1.2	Exemption for convents, monasteries and hotels	366

Table of Contents

9.5.1.3	Definitions	366
	Subsection 9.5.2 — Containment	
9.5.2.1	Construction	366
9.5.2.2	Buildings up to 3 storeys	367
9.5.2.3	Deemed compliance	367
9.5.2.4	Buildings up to 4 storeys	368
9.5.2.5	Buildings over 4 storeys	368
9.5.2.6	Fire separations between occupancies	368
9.5.2.7	Fire separations between dwelling units and corridors	369
9.5.2.8	Protection of openings in fire separations	369
9.5.2.9	Storage rooms	370
9.5.2.10	Fuel-fired appliance service rooms	370
9.5.2.11	Combustion air	370
9.5.2.12	Incinerator and refuse storage rooms	370
9.5.2.13	Vertical service spaces	371
9.5.2.14	Refuse and linen chutes	371
9.5.2.15	Storage garages	371
	Subsection 9.5.3 — Means of Egress	
9.5.3.1	Access to exits	371
9.5.3.2	Number of exits	372
9.5.3.3	Stairway separations	373
9.5.3.4	Door swing	373
9.5.3.5	Exit signs	373
9.5.3.6	Interior finishes	373
9.5.3.7	Fire escapes	373
9.5.3.8	Lighting	374
9.5.3.9	Emergency lighting	374
	Subsection 9.5.4 — Fire Alarm and Detection	
9.5.4.1	Fire alarm requirements	375
9.5.4.2	Non-electric fire alarm systems	375
9.5.4.3	Automatic detection	375
9.5.4.4	Interconnected smoke alarms	376
9.5.4.5	Smoke alarms	376
9.5.4.6	Existing fire alarm systems	376
	Subsection 9.5.5 — Suppression	
9.5.5.1	Access for fire fighting	376
9.5.5.2	Standpipe systems	377
9.5.5.3	Sprinkler systems	377
	Section 9.6 — Buildings Higher than 6 Storeys in Building Height with Residential Occupancies	
	Subsection 9.6.1 — Application and General	
9.6.1.1	Application	378
9.6.1.2	Exemption for convents, monasteries and hotels	378
9.6.1.3	Definitions	378
	Subsection 9.6.2 — Containment	
9.6.2.1	Construction	378
9.6.2.2	Floor assemblies	379
9.6.2.3	Combustible construction	379

Table of Contents

9.6.2.4	Fire separations between occupancies	379
9.6.2.5	Fire separations between dwelling units and corridors	379
9.6.2.6	Protection of openings in fire separations	380
9.6.2.7	Storage rooms	381
9.6.2.8	Fuel-fired appliance service rooms	381
9.6.2.9	Incinerator rooms	381
9.6.2.10	Combustion air	381
9.6.2.11	Refuse storage rooms	381
9.6.2.12	Vertical service spaces	381
9.6.2.13	Refuse and linen chutes	381
9.6.2.14	Transformer vaults	382
9.6.2.15	Storage garages	382
9.6.2.16	Smoke control measures	382
	Subsection 9.6.3 — Means of Egress	
9.6.3.1	Access to exits	383
9.6.3.2	Number of exits	383
9.6.3.3	Travel distance	383
9.6.3.4	Stairway separations	384
9.6.3.5	Door swing	384
9.6.3.6	Exit signs	384
9.6.3.7	Interior finishes	384
9.6.3.8	Lighting	384
9.6.3.9	Emergency lighting	384
	Subsection 9.6.4 — Fire Alarm and Detection	
9.6.4.1	Fire alarm requirements	385
9.6.4.2	Automatic detection	385
9.6.4.3	Manual pull stations	385
9.6.4.4	Electrical supervision	385
9.6.4.5	Annunciator panels	385
9.6.4.6	Signals to the fire department	386
9.6.4.7	Voice communication systems	386
9.6.4.8	Emergency power	386
9.6.4.9	Shutdown of air handling systems	386
9.6.4.10	Smoke alarms	386
	Subsection 9.6.5 — Suppression	
9.6.5.1	Access for fire fighting	387
9.6.5.2	Standpipe systems	387
9.6.5.3	Fire department connections	387
9.6.5.4	Hydrants	388
9.6.5.5	Sprinkler systems	388
9.6.5.6	Firefighters' elevators	388
9.6.5.7	Emergency power supply	389
	Section 9.7 — Buildings with a Care Occupancy or Retirement Home	
	Subsection 9.7.1 — Application and General	
9.7.1.1	Application	389
9.7.1.2	Conflict	390
9.7.1.3	Additional requirements	390
9.7.1.4	Definitions	390

Table of Contents

	Subsection 9.7.2 — Containment	
9.7.2.1	Self-closing devices	390
	Subsection 9.7.3 — Means of Egress	
9.7.3.1	Emergency lighting	391
	Subsection 9.7.4 — Fire Alarm and Detection	
9.7.4.1	Fire signal to fire department	391
9.7.4.2	Sprinkler signal to fire department	391
9.7.4.3	Smoke alarms	392
9.7.4.4	Voice communication systems	392
	Subsection 9.7.5 — Suppression	
9.7.5.1	Sprinkler systems	393
	Section 9.8 — Two Unit Residential Occupancies	
	Subsection 9.8.1 — Application and General	
9.8.1.1	Application	394
9.8.1.2	Definitions	394
	Subsection 9.8.2 — Containment	
9.8.2.1	General requirements for fire separations	395
9.8.2.2	Fire separations between residential units	395
9.8.2.3	Alternative protection for ceilings	395
9.8.2.4	Combustion air	395
9.8.2.5	Protection of openings in fire separations	396
	Subsection 9.8.3 — Means of Egress	
9.8.3.1	Requirements for means of escape	396
9.8.3.2	One means of escape	396
9.8.3.3	. . . . .	396
9.8.3.4	Two means of escape	396
9.8.3.5	Existing means of escape with sprinklers	397
	Subsection 9.8.4 — Fire Alarm and Detection	
9.8.4.1	Interconnected smoke alarms	397
9.8.4.2	Smoke alarms	398
	Subsection 9.8.5 — Suppression	
9.8.5.1	Sprinkler systems	398
	Subsection 9.8.6 — Electrical	
9.8.6.1	Electrical inspections required	398
	Section 9.9 — Hotels	
	Subsection 9.9.1 — Application and General	
9.9.1.1	Application	399
9.9.1.2	Building audit	399
9.9.1.3	Definitions	400
	Subsection 9.9.2 — Containment	
9.9.2.1	Construction	400
9.9.2.2	Buildings up to 3 storeys	401
9.9.2.3	Buildings up to 4 storeys	402
9.9.2.4	Buildings over 4 storeys but not more than 6 storeys	402
9.9.2.5	Buildings over 6 storeys	403
9.9.2.6	Adjacent buildings	403
9.9.2.7	Interconnected floor spaces	403

Table of Contents

9.9.2.8	Fire separation of guest suites	404
9.9.2.9	Fire separations between major occupancies	404
9.9.2.10	Protection of openings in fire separations	404
9.9.2.11	Laundry rooms, storage rooms and maintenance shops	405
9.9.2.12	Fuel-fired appliances	405
9.9.2.13	Vertical service spaces	406
9.9.2.14	Refuse and linen chutes	406
9.9.2.15	Smoke control	407
9.9.2.16	Pipes, ducts and plenums	407
9.9.2.17	. . . . .	408
9.9.2.18	. . . . .	408
9.9.2.19	Cooking operations	408
	Subsection 9.9.3 — Means of Egress	
9.9.3.1	Occupant load	409
9.9.3.2	Access to exit	409
9.9.3.3	Number of exits	411
9.9.3.4	Exit widths	412
9.9.3.5	Travel distance	412
9.9.3.6	Stairway separations	412
9.9.3.7	Exterior stairways and fire escapes	413
9.9.3.8	Door swing and hardware	414
9.9.3.9	Emergency access to floor areas	414
9.9.3.10	Signs	414
9.9.3.11	Interior finishes	414
9.9.3.12	. . . . .	414
9.9.3.13	Lighting	414
9.9.3.14	Emergency lighting	414
	Subsection 9.9.4 — Fire Alarm and Detection	
9.9.4.1	Fire alarm requirements	415
9.9.4.2	Automatic detection	416
9.9.4.3	Manual pull stations	416
9.9.4.4	Alarm signalling devices	416
9.9.4.5	Annunciator panels	417
9.9.4.6	Shutdown of air handling systems	417
9.9.4.7	Trouble signals	417
9.9.4.8	Operation	417
9.9.4.9	Continuity	417
9.9.4.10	Electrical supervision	417
9.9.4.11	Emergency power	417
9.9.4.12	Installation	418
9.9.4.13	Smoke alarms	418
9.9.4.14	Voice communication systems	418
	Subsection 9.9.5 — Suppression	
9.9.5.1	Access for fire fighting	419
9.9.5.2	Standpipe systems	419
9.9.5.3	Elevators for firefighters' use	420
9.9.5.4	Sprinkler systems	421
9.9.5.5	Emergency power supply	421

Table of Contents

DIVISION C — ADMINISTRATIVE PROVISIONS

Section 1.1 — General

Subsection 1.1.1 — Chief Fire Official

1.1.1.1 Appointment by Fire Marshal 71

1.1.1.2 Appointment by Fire Chief 71

Section 1.2 — Qualifications

Subsection 1.2.1 — Qualifications and Responsibilities of Persons Performing Work on Fire Alarm Systems

1.2.1.1 Application 71

1.2.1.2 Qualifications and responsibilities 72

1.2.1.3 Responsibility 94

Subsection 1.2.2 — Qualifications and Responsibilities of Persons Performing Work on Interconnected Smoke Alarm Systems

1.2.2.1 Application 72

1.2.2.2 Qualifications and responsibilities 423

1.2.2.3 Responsibility 423

Subsection 1.2.3 — Qualifications of the Person who Ensures Implementation of a Fire Safety Plan under Subsection 2.8.2. of Division B

1.2.3.1 Application 72

1.2.3.2 Qualifications 424

1.2.3.3 Responsibility if person designated 424

Subsection 1.2.4 — Qualifications of Chief Fire Officials

1.2.4.1 Application 424

1.2.4.2 Qualifications 424

1.2.4.3 Responsibility 425

Section 1.3 — Administrative Provisions

Subsection 1.3.1 — Required Testing

1.3.1.1 Tests by owner 73

1.3.1.2 Tests by Chief Fire Official 425

Subsection 1.3.2 — Alternative Solutions

1.3.2.1 Approval 425

1.3.2.2 Documentation 425

1.3.2.3 Review 426

1.3.2.4 Implementation 426

1.3.2.5 Records 426

Section 2.1 — Revocation and Commencement

Subsection 2.1.1 — Revocation

2.1.1.1 Revocation 86

Subsection 2.1.2 — Commencement

2.1.2.1 Commencement 111

425/11 — FORMS

1 Forms 428

2 Commencement 428

Table of Contents

SCHEDULE 1

Form 1	Filing in Court (Determination of Board)	428
Form 2	Filing in Court (Order of Board)	429

**365/13 — MANDATORY ASSESSMENT OF COMPLAINTS AND
REQUESTS FOR APPROVAL**

1	Definitions	431
2	Mandatory assessment after complaint	431
3	Mandatory assessment after request for approval	432
4	Required information, vulnerable occupancies	432
5	Commencement	433

**364/13 — MANDATORY INSPECTION — FIRE DRILL IN VULNERABLE
OCCUPANCY**

1	Definitions	434
2	Mandatory inspection, fire drill in vulnerable occupancy	434
3	Required information after inspection	435
4	Commencement	436

Appendix — Historical Building Code References	437
Index	439