

SBC

The Saudi Fire Protection Code
SBC 801 - CC
Code & Commentaries

2024



كود البناء السعودي
Saudi Building Code



TABLE OF CONTENTS

TABLE OF CONTENTS

CHAPTER 1 —SCOPE AND ADMINISTRATION.....	2
SECTION 101 SCOPE AND GENERAL REQUIREMENTS.....	5
SECTION 102 APPLICABILITY	7
SECTION 103 CODE COMPLIANCE AGENCY	10
SECTION 104 DUTIES AND POWERS OF THE FIRE OFFICIAL.....	10
SECTION 105 PERMITS	16
SECTION 106 CONSTRUCTION DOCUMENTS.....	30
SECTION 107 FEES.....	32
SECTION 108 INSPECTIONS	33
SECTION 109 MAINTENANCE	35
SECTION 110 SERVICE UTILITIES	36
SECTION 111 MEANS OF APPEALS.....	36
SECTION 112 VIOLATIONS	37
SECTION 113 STOP WORK ORDER	39
SECTION 114 UNSAFE BUILDINGS.....	40
CHAPTER 2 —DEFINITIONS.....	49
SECTION 201 GENERAL	49
SECTION 202 GENERAL DEFINITIONS.....	49
CHAPTER 3 —GENERAL REQUIREMENTS	216
SECTION 301 GENERAL	216
SECTION 302 DEFINITIONS.....	216
SECTION 303 ASPHALT KETTLES.....	217
SECTION 304 COMBUSTIBLE WASTE MATERIAL.....	218
SECTION 305 IGNITION SOURCES	221
SECTION 306 MOTION PICTURE PROJECTION ROOMS AND FILM	222
SECTION 307 OPEN BURNING, RECREATIONAL FIRES AND PORTABLE OUTDOOR FIREPLACES	222
SECTION 308 OPEN FLAMES	225
SECTION 309 POWERED INDUSTRIAL TRUCKS AND EQUIPMENT.....	230
SECTION 310 SMOKING	231
SECTION 311 VACANT PREMISES.....	232
SECTION 312 VEHICLE IMPACT PROTECTION.....	235
SECTION 313 FUELED EQUIPMENT	236
SECTION 314 INDOOR DISPLAYS	237
SECTION 315 GENERAL STORAGE	238
SECTION 316 HAZARDS TO FIRE FIGHTERS	243
SECTION 317 LANDSCAPED ROOFS.....	245
SECTION 318 LAUNDRY CARTS	247
SECTION 319 MOBILE FOOD PREPARATION VEHICLES	247
SECTION 320 ADDITIVE MANUFACTURING (3D PRINTING)	251
SECTION 321 ARTIFICIAL COMBUSTIBLE VEGETATION.....	254
CHAPTER 4 —EMERGENCY PLANNING AND PREPAREDNESS.....	263
SECTION 401 GENERAL	266
SECTION 402 DEFINITIONS.....	267
SECTION 403 EMERGENCY PREPAREDNESS REQUIREMENTS.....	267
SECTION 404 FIRE SAFETY, EVACUATION AND LOCKDOWN PLANS	285
SECTION 405 EMERGENCY EVACUATION DRILLS.....	289
SECTION 406 EMPLOYEE TRAINING AND RESPONSE PROCEDURES	292
SECTION 407 HAZARD COMMUNICATION.....	293
CHAPTER 5 —FIRE SERVICE FEATURES.....	300
SECTION 501 GENERAL	300



TABLE OF CONTENTS

SECTION 502 DEFINITIONS.....	301
SECTION 503 FIRE APPARATUS ACCESS ROADS.....	301
SECTION 504 ACCESS TO BUILDING OPENINGS AND ROOFS.....	307
SECTION 505 PREMISES IDENTIFICATION	307
SECTION 506 KEY BOXES.....	308
SECTION 507 FIRE PROTECTION WATER SUPPLIES	309
SECTION 508 FIRE COMMAND CENTER	312
SECTION 509 FIRE PROTECTION AND UTILITY EQUIPMENT IDENTIFICATION AND ACCESS	316
SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE	317
CHAPTER 6 —BUILDING SERVICES AND SYSTEMS	333
SECTION 601 GENERAL	333
SECTION 602 DEFINITIONS.....	334
SECTION 603 ELECTRICAL EQUIPMENT, WIRING AND HAZARDS	334
SECTION 604 ELEVATOR OPERATION, MAINTENANCE AND FIRE SERVICE KEYS	340
SECTION 605 FUEL-FIRED APPLIANCES.....	344
SECTION 606 COMMERCIAL COOKING EQUIPMENT AND SYSTEMS	353
SECTION 607 COMMERCIAL COOKING OIL STORAGE.....	358
SECTION 608 MECHANICAL REFRIGERATION	360
SECTION 609 HYPERBARIC FACILITIES	369
SECTION 610 CLOTHES DRYER EXHAUST SYSTEMS.....	370
CHAPTER 7 —FIRE AND SMOKE PROTECTION FEATURES.....	379
SECTION 701 GENERAL	379
SECTION 702 DEFINITIONS.....	382
SECTION 703 PENETRATIONS	382
SECTION 704 JOINTS AND VOIDS.....	383
SECTION 705 DOOR AND WINDOW OPENINGS.....	384
SECTION 706 DUCT AND AIR TRANSFER OPENINGS	386
SECTION 707 CONCEALED SPACES.....	386
SECTION 708 SPRAY FIRE-RESISTANT MATERIALS AND INTUMESCENT FIRE-RESISTANT MATERIALS	387
CHAPTER 8 —INTERIOR FINISH, DECORATIVE MATERIALS AND FURNISHINGS.....	390
SECTION 801 GENERAL	390
SECTION 802 DEFINITIONS.....	390
SECTION 803 INTERIOR WALL AND CEILING FINISH IN EXISTING BUILDINGS.....	391
SECTION 804 INTERIOR WALL AND CEILING TRIM AND INTERIOR FLOOR FINISH IN NEW AND EXISTING BUILDINGS....	400
SECTION 805 UPHOLSTERED FURNITURE AND MATTRESSES IN NEW AND EXISTING BUILDINGS	403
SECTION 806 DECORATIVE VEGETATION IN NEW AND EXISTING BUILDINGS	410
SECTION 807 DECORATIVE MATERIALS AND ARTIFICIAL DECORATIVE VEGETATION IN NEW AND EXISTING BUILDINGS	411
SECTION 808 FURNISHINGS OTHER THAN UPHOLSTERED FURNITURE AND MATTRESSES OR DECORATIVE MATERIALS IN NEW AND EXISTING BUILDINGS.....	418
CHAPTER 9 — FIRE PROTECTION AND LIFE SAFETY SYSTEMS	432
SECTION 901 GENERAL	432
SECTION 902 DEFINITIONS.....	442
SECTION 903 AUTOMATIC SPRINKLER SYSTEMS	443
SECTION 904 ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS.....	471
SECTION 905 STANDPIPE SYSTEMS.....	486
SECTION 906 PORTABLE FIRE EXTINGUISHERS	495
SECTION 907 FIRE ALARM AND DETECTION SYSTEMS.....	502
SECTION 908 EMERGENCY ALARM SYSTEMS.....	542
SECTION 909 SMOKE CONTROL SYSTEMS	542
SECTION 910 SMOKE AND HEAT REMOVAL	577
SECTION 911 EXPLOSION CONTROL	584
SECTION 912 FIRE DEPARTMENT CONNECTIONS	586



TABLE OF CONTENTS

SECTION 913 FIRE PUMPS.....	589
SECTION 914 FIRE PROTECTION BASED ON SPECIAL DETAILED REQUIREMENTS OF USE AND OCCUPANCY.....	591
SECTION 915 CARBON MONOXIDE DETECTION	601
SECTION 916 GAS DETECTION SYSTEMS.....	605
SECTION 917 MASS NOTIFICATION SYSTEMS	607
CHAPTER 10 —MEANS OF EGRESS.....	639
SECTION 1001 ADMINISTRATION	640
SECTION 1002 DEFINITIONS.....	641
SECTION 1003 GENERAL MEANS OF EGRESS.....	642
SECTION 1004 OCCUPANT LOAD	646
SECTION 1005 MEANS OF EGRESS SIZING	651
SECTION 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS	656
SECTION 1007 EXIT AND EXIT ACCESS DOORWAY CONFIGURATION	665
SECTION 1008 MEANS OF EGRESS ILLUMINATION.....	667
SECTION 1009 ACCESSIBLE MEANS OF EGRESS	671
SECTION 1010 DOORS, GATES AND TURNSTILES.....	687
SECTION 1011 STAIRWAYS	720
SECTION 1012 RAMPS.....	735
SECTION 1013 EXIT SIGNS.....	739
SECTION 1014 HANDRAILS.....	743
SECTION 1015 GUARDS	748
SECTION 1016 EXIT ACCESS	753
SECTION 1017 EXIT ACCESS TRAVEL DISTANCE	755
SECTION 1018 AISLES.....	759
SECTION 1019 EXIT ACCESS STAIRWAYS AND RAMPS.....	760
SECTION 1020 CORRIDORS	763
SECTION 1021 EGRESS BALCONIES	772
SECTION 1022 EXITS	773
SECTION 1023 INTERIOR EXIT STAIRWAYS AND RAMPS.....	774
SECTION 1024 EXIT PASSAGEWAYS	783
SECTION 1025 LUMINOUS EGRESS PATH MARKINGS.....	787
SECTION 1026 HORIZONTAL EXITS	792
SECTION 1027 EXTERIOR EXIT STAIRWAYS AND RAMPS	795
SECTION 1028 EXIT DISCHARGE.....	798
SECTION 1029 EGRESS COURTS	801
SECTION 1030 ASSEMBLY	801
SECTION 1031 EMERGENCY ESCAPE AND RESCUE	824
SECTION 1032 MAINTENANCE OF THE MEANS OF EGRESS.....	827
CHAPTER 11 —CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS	950
SECTION 1101 GENERAL	950
SECTION 1102 DEFINITIONS.....	951
SECTION 1103 FIRE SAFETY REQUIREMENTS FOR EXISTING BUILDINGS.....	951
SECTION 1104 MEANS OF EGRESS FOR EXISTING BUILDINGS	970
SECTION 1105 CONSTRUCTION REQUIREMENTS FOR EXISTING GROUP I-2	979
SECTION 1106 REQUIREMENTS FOR OUTDOOR OPERATIONS	988
CHAPTER 12 —ENERGY SYSTEMS GENERAL COMMENTS	996
SECTION 1201 GENERAL	996
SECTION 1202 DEFINITIONS.....	997
SECTION 1203 EMERGENCY AND STANDBY POWER SYSTEMS.....	997
SECTION 1204 PORTABLE GENERATORS.....	1005
SECTION 1205 SOLAR PHOTOVOLTAIC POWER SYSTEMS	1006
SECTION 1206 STATIONARY FUEL CELL POWER SYSTEMS.....	1011
SECTION 1207 ELECTRICAL ENERGY STORAGE SYSTEMS (ESS)	1015



TABLE OF CONTENTS

CHAPTER 20 —AVIATION FACILITIES	1053
SECTION 2001 GENERAL	1053
SECTION 2002 DEFINITIONS.....	1053
SECTION 2003 GENERAL PRECAUTIONS	1053
SECTION 2004 AIRCRAFT MAINTENANCE	1054
SECTION 2005 PORTABLE FIRE EXTINGUISHERS	1056
SECTION 2006 AIRCRAFT FUELING.....	1058
SECTION 2007 HELISTOPS AND HELIPORTS	1070
CHAPTER 21 —DRY CLEANING.....	1076
SECTION 2101 General.....	1076
SECTION 2102 DEFINITIONS.....	1076
SECTION 2103 CLASSIFICATIONS	1077
SECTION 2104 GENERAL REQUIREMENTS	1078
SECTION 2105 OPERATING REQUIREMENTS	1079
SECTION 2106 SPOTTING AND PRETREATING	1083
SECTION 2107 DRY CLEANING SYSTEMS.....	1084
SECTION 2108 FIRE PROTECTION	1086
CHAPTER 22 —COMBUSTIBLE DUST-PRODUCING OPERATIONS	1090
SECTION 2201 GENERAL	1091
SECTION 2202 DEFINITION	1092
SECTION 2203 DUST EXPLOSION PREVENTION	1092
SECTION 2204 DUST EXPLOSION SCREENING TESTS	1098
SECTION 2205 STANDARDS	1098
CHAPTER 23 —MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES.....	1103
SECTION 2301 GENERAL	1103
SECTION 2302 DEFINITIONS.....	1104
SECTION 2303 LOCATION OF DISPENSING DEVICES.....	1104
SECTION 2304 DISPENSING OPERATIONS.....	1105
SECTION 2305 OPERATIONAL REQUIREMENTS	1108
SECTION 2306 FLAMMABLE AND COMBUSTIBLE LIQUID MOTOR FUEL-DISPENSING FACILITIES	1111
SECTION 2307 LIQUEFIED PETROLEUM GAS MOTOR FUEL-DISPENSING FACILITIES.....	1125
SECTION 2308 COMPRESSED NATURAL GAS MOTOR FUEL-DISPENSING FACILITIES	1128
SECTION 2309 HYDROGEN MOTOR FUEL-DISPENSING AND GENERATION FACILITIES	1132
SECTION 2310 MARINE MOTOR FUEL-DISPENSING FACILITIES	1138
SECTION 2311 REPAIR GARAGES	1141
CHAPTER 24 —FLAMMABLE FINISHES	1163
SECTION 2401 GENERAL	1163
SECTION 2402 DEFINITIONS.....	1164
SECTION 2403 PROTECTION OF OPERATIONS	1164
SECTION 2404 SPRAY FINISHING	1170
SECTION 2405 DIPPING OPERATIONS.....	1184
SECTION 2406 POWDER COATING.....	1189
SECTION 2407 ELECTROSTATIC APPARATUS	1191
SECTION 2408 ORGANIC PEROXIDES AND DUAL-COMPONENT COATINGS	1193
SECTION 2409 INDOOR MANUFACTURING OF REINFORCED PLASTICS.....	1195
SECTION 2410 FLOOR SURFACING AND FINISHING OPERATIONS	1196
CHAPTER 25 —FRUIT AND CROP RIPENING	1208
SECTION 2501 GENERAL	1208
SECTION 2502 DEFINITIONS.....	1209
SECTION 2503 ETHYLENE GAS	1209
SECTION 2504 SOURCES OF IGNITION.....	1209



TABLE OF CONTENTS

SECTION 2505 COMBUSTIBLE WASTE	1210
SECTION 2506 ETHYLENE GENERATORS	1210
SECTION 2507 WARNING SIGNS	1211
CHAPTER 26 —FUMIGATION AND INSECTICIDAL FOGGING.....	1215
SECTION 2601 GENERAL	1216
SECTION 2602 DEFINITIONS.....	1216
SECTION 2603 FIRE SAFETY REQUIREMENTS.....	1216
CHAPTER 27 —SEMICONDUCTOR FABRICATION FACILITIES	1225
SECTION 2701 GENERAL	1225
SECTION 2702 DEFINITIONS.....	1226
SECTION 2703 GENERAL SAFETY PROVISIONS.....	1226
SECTION 2704 STORAGE	1239
SECTION 2705 USE AND HANDLING	1241
CHAPTER 28 —LUMBER YARDS AND AGRO-INDUSTRIAL, SOLID BIOMASS AND WOODWORKING FACILITIES	1254
SECTION 2801 GENERAL	1254
SECTION 2802 DEFINITIONS.....	1255
SECTION 2803 GENERAL REQUIREMENTS	1255
SECTION 2804 FIRE PROTECTION	1257
SECTION 2805 PLYWOOD, VENEER AND COMPOSITE BOARD MILLS	1257
SECTION 2806 LOG STORAGE AREAS	1258
SECTION 2807 STORAGE OF WOOD CHIPS AND HOGGED MATERIAL ASSOCIATED WITH TIMBER AND LUMBER PRODUCTION FACILITIES.....	1258
SECTION 2808 STORAGE AND PROCESSING OF WOOD CHIPS, HOGGED MATERIAL, FINES, COMPOST, SOLID BIOMASS FEEDSTOCK AND RAW PRODUCT ASSOCIATED WITH YARD WASTE, AGRO-INDUSTRIAL AND RECYCLING FACILITIES..	1259
SECTION 2809 EXTERIOR STORAGE OF FINISHED LUMBER AND SOLID BIOFUEL PRODUCTS	1261
SECTION 2810 OUTDOOR STORAGE OF PALLETS AT PALLET MANUFACTURING AND RECYCLING FACILITIES.....	1262
CHAPTER 29 —MANUFACTURE OF ORGANIC COATINGS.....	1269
SECTION 2901 GENERAL	1270
SECTION 2902 DEFINITION	1270
SECTION 2903 GENERAL PRECAUTIONS	1270
SECTION 2904 ELECTRICAL EQUIPMENT AND PROTECTION	1272
SECTION 2905 PROCESS STRUCTURES	1273
SECTION 2906 PROCESS MILLS AND KETTLES	1274
SECTION 2907 PROCESS PIPING.....	1275
SECTION 2908 RAW MATERIALS IN PROCESS AREAS.....	1276
SECTION 2909 RAW MATERIALS AND FINISHED PRODUCTS	1276
CHAPTER 30 —INDUSTRIAL OVENS	1282
SECTION 3001 GENERAL	1282
SECTION 3002 DEFINITIONS	1282
SECTION 3003 LOCATION	1283
SECTION 3004 FUEL PIPING	1283
SECTION 3005 INTERLOCKS	1283
SECTION 3006 FIRE PROTECTION.....	1284
SECTION 3007 OPERATION AND MAINTENANCE	1284
CHAPTER 31 —TENTS AND OTHER MEMBRANE STRUCTURES	1288
SECTION 3101 GENERAL	1288
SECTION 3102 DEFINITIONS	1289
SECTION 3103 TEMPORARY TENTS AND MEMBRANE STRUCTURES	1289
SECTION 3104 TEMPORARY AND PERMANENT TENTS AND MEMBRANE STRUCTURES	1296
SECTION 3105 TEMPORARY SPECIAL EVENT STRUCTURES.....	1297
SECTION 3106 OUTDOOR ASSEMBLY EVENTS	1300



TABLE OF CONTENTS

SECTION 3107 OPERATIONAL REQUIREMENTS	1303
CHAPTER 32 —HIGH-PILED COMBUSTIBLE STORAGE	1315
SECTION 3201 GENERAL	1315
SECTION 3202 DEFINITIONS	1317
SECTION 3203 COMMODITY CLASSIFICATION	1318
SECTION 3204 DESIGNATION OF HIGH-PILED STORAGE AREAS	1322
SECTION 3205 HOUSEKEEPING AND MAINTENANCE	1323
SECTION 3206 GENERAL FIRE PROTECTION AND LIFE SAFETY FEATURES	1324
SECTION 3207 SOLID-PILED AND SHELF STORAGE	1332
SECTION 3208 RACK STORAGE	1334
SECTION 3209 AUTOMATED STORAGE	1337
SECTION 3210 SPECIALTY STORAGE	1339
CHAPTER 33 —FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION	1365
SECTION 3301 GENERAL	1365
SECTION 3302 DEFINITIONS	1365
SECTION 3303 OWNER'S RESPONSIBILITY FOR FIRE PROTECTION	1366
SECTION 3304 TEMPORARY HEATING EQUIPMENT	1369
SECTION 3305 PRECAUTIONS AGAINST FIRE	1370
SECTION 3306 FLAMMABLE AND COMBUSTIBLE LIQUIDS	1374
SECTION 3307 FLAMMABLE GASES	1374
SECTION 3308 EXPLOSIVE MATERIALS	1375
SECTION 3309 PORTABLE GENERATORS	1376
SECTION 3310 FIRE REPORTING	1376
SECTION 3311 ACCESS FOR FIRE FIGHTING	1376
SECTION 3312 MEANS OF EGRESS	1376
SECTION 3313 WATER SUPPLY FOR FIRE PROTECTION	1377
SECTION 3314 STANDPIPES	1379
SECTION 3315 AUTOMATIC SPRINKLER SYSTEM	1380
SECTION 3316 PORTABLE FIRE EXTINGUISHERS	1380
SECTION 3317 MOTORIZED CONSTRUCTION EQUIPMENT	1380
SECTION 3318 SAFEGUARDING ROOFING OPERATIONS	1381
CHAPTER 34 —TIRE REBUILDING AND TIRE STORAGE	1386
SECTION 3401 GENERAL	1387
SECTION 3402 DEFINITIONS	1387
SECTION 3403 TIRE REBUILDING	1387
SECTION 3404 PRECAUTIONS AGAINST FIRE	1388
SECTION 3405 OUTDOOR STORAGE	1388
SECTION 3406 FIRE DEPARTMENT ACCESS	1389
SECTION 3407 FENCING	1390
SECTION 3408 FIRE PROTECTION	1390
SECTION 3409 INDOOR STORAGE ARRANGEMENT	1390
CHAPTER 35 —WELDING AND OTHER HOT WORK	1393
SECTION 3501 GENERAL	1393
SECTION 3502 DEFINITIONS	1394
SECTION 3503 GENERAL REQUIREMENTS	1394
SECTION 3504 FIRE SAFETY REQUIREMENTS	1396
SECTION 3505 GAS WELDING AND CUTTING	1399
SECTION 3506 ELECTRIC ARC HOT WORK	1402
SECTION 3507 CALCIUM CARBIDE SYSTEMS	1403
SECTION 3508 ACETYLENE GENERATORS	1403
SECTION 3509 PIPING MANIFOLDS AND HOSE SYSTEMS FOR FUEL GASES AND OXYGEN	1403
SECTION 3510 HOT WORK ON FLAMMABLE AND COMBUSTIBLE LIQUID STORAGE TANKS	1405



TABLE OF CONTENTS

CHAPTER 36 — MARINAS.....	1409
SECTION 3601 SCOPE.....	1409
SECTION 3602 DEFINITIONS.....	1409
SECTION 3603 GENERAL PRECAUTIONS	1409
SECTION 3604 FIRE PROTECTION EQUIPMENT.....	1411
SECTION 3605 MARINE MOTOR FUEL-DISPENSING FACILITIES	1412
CHAPTER 37 — COMBUSTIBLE FIBERS.....	1415
SECTION 3701 GENERAL	1415
SECTION 3702 DEFINITIONS.....	1415
SECTION 3703 GENERAL PRECAUTIONS	1415
SECTION 3704 LOOSE FIBER STORAGE	1417
SECTION 3705 BALED STORAGE.....	1418
CHAPTER 38 — HIGHER EDUCATION LABORATORIES GENERAL COMMENTS	1421
SECTION 3801 GENERAL	1422
SECTION 3802 DEFINITIONS.....	1422
SECTION 3803 GENERAL SAFETY PROVISIONS.....	1422
SECTION 3804 LABORATORY SUITE CONSTRUCTION	1424
SECTION 3805 NONSPRINKLERED LABORATORIES	1427
SECTION 3806 EXISTING SPRINKLERED LABORATORIES	1429
CHAPTER 39 — PROCESSING AND EXTRACTION FACILITIES.....	1433
SECTION 3901 GENERAL	1433
SECTION 3902 DEFINITIONS.....	1434
SECTION 3903 PROCESSING AND EXTRACTION	1434
SECTION 3904 SYSTEMS AND EQUIPMENT	1435
SECTION 3905 SAFETY SYSTEMS	1437
CHAPTER 50 — HAZARDOUS MATERIALS—GENERAL PROVISIONS.....	1443
SECTION 5001 GENERAL	1443
SECTION 5002 DEFINITIONS.....	1454
SECTION 5003 GENERAL REQUIREMENTS	1455
SECTION 5004 STORAGE	1481
SECTION 5005 USE, DISPENSING AND HANDLING.....	1489
CHAPTER 51 — AEROSOLS	1513
SECTION 5101 GENERAL	1513
SECTION 5102 DEFINITIONS.....	1514
SECTION 5103 CLASSIFICATION OF AEROSOL PRODUCTS	1514
SECTION 5104 INSIDE STORAGE OF AEROSOL PRODUCTS	1515
SECTION 5105 OUTSIDE STORAGE	1525
SECTION 5106 RETAIL DISPLAY	1525
SECTION 5107 MANUFACTURING FACILITIES	1530
CHAPTER 52 — RESERVED.....	1536
CHAPTER 53 — COMPRESSED GASES.....	1537
SECTION 5301 GENERAL	1538
SECTION 5302 DEFINITIONS.....	1539
SECTION 5303 GENERAL REQUIREMENTS	1539
SECTION 5304 STORAGE OF COMPRESSED GASES	1549
SECTION 5305 USE AND HANDLING OF COMPRESSED GASES	1549
SECTION 5306 MEDICAL GASES	1551
SECTION 5307 COMPRESSED GASES NOT OTHERWISE REGULATED	1553
CHAPTER 54 — CORROSIVE MATERIALS	1563



TABLE OF CONTENTS

SECTION 5401 GENERAL	1563
SECTION 5402 DEFINITION	1564
SECTION 5403 GENERAL REQUIREMENTS	1564
SECTION 5404 STORAGE	1564
SECTION 5405 USE	1565
CHAPTER 55 —CRYOGENIC FLUIDS	1567
SECTION 5501 GENERAL	1567
SECTION 5502 DEFINITIONS	1568
SECTION 5503 GENERAL REQUIREMENTS	1568
SECTION 5504 STORAGE	1574
SECTION 5505 USE AND HANDLING	1577
CHAPTER 56 —EXPLOSIVES AND FIREWORKS	1584
SECTION 5601 GENERAL	1585
SECTION 5602 DEFINITIONS	1592
SECTION 5603 RECORD KEEPING AND REPORTING	1593
SECTION 5604 EXPLOSIVE MATERIALS STORAGE AND HANDLING	1593
SECTION 5605 MANUFACTURE, ASSEMBLY AND TESTING OF EXPLOSIVES, EXPLOSIVE MATERIALS AND FIREWORKS	1601
SECTION 5606 SMALL ARMS AMMUNITION AND SMALL ARMS AMMUNITION COMPONENTS	1607
SECTION 5607 BLASTING	1612
SECTION 5608 FIREWORKS DISPLAY	1614
SECTION 5609 TEMPORARY STORAGE OF CONSUMER FIREWORKS	1617
CHAPTER 57 —FLAMMABLE AND COMBUSTIBLE LIQUIDS	1627
SECTION 5701 GENERAL	1628
SECTION 5702 DEFINITIONS	1630
SECTION 5703 GENERAL REQUIREMENTS	1631
SECTION 5704 STORAGE	1637
SECTION 5705 DISPENSING, USE, MIXING AND HANDLING	1678
SECTION 5706 SPECIAL OPERATIONS	1692
SECTION 5707 ON-DEMAND MOBILE FUELING OPERATIONS	1715
CHAPTER 58 —FLAMMABLE GASES AND FLAMMABLE CRYOGENIC FLUIDS	1737
SECTION 5801 GENERAL	1737
SECTION 5802 DEFINITIONS	1738
SECTION 5803 GENERAL REQUIREMENTS	1738
SECTION 5804 STORAGE	1741
SECTION 5805 USE	1741
SECTION 5806 FLAMMABLE CRYOGENIC FLUIDS	1742
SECTION 5807 METAL HYDRIDE STORAGE SYSTEMS	1746
SECTION 5808 HYDROGEN FUEL GAS ROOMS	1749
CHAPTER 59 —FLAMMABLE SOLIDS	1755
SECTION 5901 GENERAL	1755
SECTION 5902 DEFINITIONS	1756
SECTION 5903 GENERAL REQUIREMENTS	1756
SECTION 5904 STORAGE	1756
SECTION 5905 USE	1757
SECTION 5906 MAGNESIUM	1757
CHAPTER 60 —HIGHLY TOXIC AND TOXIC MATERIALS	1766
SECTION 6001 GENERAL	1766
SECTION 6002 DEFINITIONS	1767
SECTION 6003 HIGHLY TOXIC AND TOXIC SOLIDS AND LIQUIDS	1767
SECTION 6004 HIGHLY TOXIC AND TOXIC COMPRESSED GASES	1770
SECTION 6005 OZONE GAS GENERATORS	1782



TABLE OF CONTENTS

CHAPTER 61 —LIQUEFIED PETROLEUM GASES.....	1791
SECTION 6101 GENERAL	1791
SECTION 6102 DEFINITIONS.....	1793
SECTION 6103 INSTALLATION OF EQUIPMENT.....	1793
SECTION 6104 LOCATION OF LP-GAS CONTAINERS.....	1795
SECTION 6105 PROHIBITED USE OF LP-GAS	1797
SECTION 6106 DISPENSING AND OVERFILLING	1798
SECTION 6107 SAFETY PRECAUTIONS AND DEVICES	1799
SECTION 6108 FIRE PROTECTION	1799
SECTION 6109 STORAGE OF PORTABLE LP-GAS CONTAINERS AWAITING USE OR RESALE.....	1800
SECTION 6110 LP-GAS CONTAINERS NOT IN SERVICE	1805
SECTION 6111 PARKING AND GARAGING OF LP-GAS TANK VEHICLES.....	1805
CHAPTER 62 —ORGANIC PEROXIDES.....	1814
SECTION 6201 GENERAL	1814
SECTION 6202 DEFINITION	1815
SECTION 6203 GENERAL REQUIREMENTS	1815
SECTION 6204 STORAGE	1816
SECTION 6205 USE	1820
CHAPTER 63 —OXIDIZERS, OXIDIZING GASES AND OXIDIZING CRYOGENIC FLUIDS.....	1825
SECTION 6301 GENERAL	1826
SECTION 6302 DEFINITIONS.....	1826
SECTION 6303 GENERAL REQUIREMENTS	1827
SECTION 6304 STORAGE	1829
SECTION 6305 USE	1832
SECTION 6306 LIQUID OXYGEN IN HOME HEALTH CARE.....	1833
CHAPTER 64 —PYROPHORIC MATERIALS.....	1841
SECTION 6401 GENERAL	1842
SECTION 6402 DEFINITION	1843
SECTION 6403 GENERAL REQUIREMENTS	1843
SECTION 6404 STORAGE	1844
SECTION 6405 USE	1846
CHAPTER 65 —PYROXYLIN (CELLULOSE NITRATE) PLASTICS	1850
SECTION 6501 GENERAL	1850
SECTION 6502 DEFINITIONS.....	1851
SECTION 6503 GENERAL REQUIREMENTS	1851
SECTION 6504 STORAGE AND HANDLING	1852
CHAPTER 66 —UNSTABLE (REACTIVE) MATERIALS.....	1856
SECTION 6601 GENERAL	1856
SECTION 6602 DEFINITION	1857
SECTION 6603 GENERAL REQUIREMENTS	1857
SECTION 6604 STORAGE	1859
SECTION 6605 USE	1861
CHAPTER 67 —WATER-REACTIVE SOLIDS AND LIQUIDS	1864
SECTION 6701 GENERAL	1864
SECTION 6702 DEFINITION	1865
SECTION 6703 GENERAL REQUIREMENTS	1865
SECTION 6704 STORAGE	1865
SECTION 6705 USE	1868
CHAPTER 80 —REFERENCED STANDARDS.....	1875



TABLE OF CONTENTS

APPENDIX A —BOARD OF APPEALS.....	1896
A101 GENERAL.....	1896
APPENDIX B —FIRE-FLOW REQUIREMENTS FOR BUILDINGS	1901
B101 GENERAL.....	1902
B102 DEFINITIONS	1902
B103 MODIFICATIONS.....	1902
B104 FIRE-FLOW CALCULATION AREA.....	1903
B105 FIRE-FLOW REQUIREMENTS FOR BUILDINGS	1904
B106 REFERENCED STANDARDS	1906
APPENDIX C —FIRE HYDRANT LOCATIONS AND DISTRIBUTION.....	1911
C101 GENERAL.....	1911
C102 NUMBER OF FIRE HYDRANTS.....	1911
C103 FIRE HYDRANT SPACING	1913
C104 CONSIDERATION OF EXISTING FIRE HYDRANTS.....	1913
C105 REFERENCED STANDARDS.....	1913
APPENDIX D —FIRE APPARATUS ACCESS ROADS	1920
D101 GENERAL.....	1920
D102 REQUIRED ACCESS.....	1920
D103 MINIMUM SPECIFICATIONS	1920
D104 COMMERCIAL AND INDUSTRIAL DEVELOPMENTS	1922
D105 AERIAL FIRE APPARATUS ACCESS ROADS	1923
D106 MULTIPLE-FAMILY RESIDENTIAL DEVELOPMENTS	1924
D107 ONEOR TWO-FAMILY RESIDENTIAL DEVELOPMENTS	1924
D108 REFERENCED STANDARDS	1925
APPENDIX E —HAZARD CATEGORIES.....	1930
E101 GENERAL	1930
E102 HAZARD CATEGORIES	1930
E103 EVALUATION OF HAZARDS.....	1938
E104 REFERENCED STANDARDS.....	1944
APPENDIX F —HAZARD RANKING.....	1946
F101 GENERAL	1946
F102 REFERENCED STANDARDS.....	1947
APPENDIX G —CRYOGENIC FLUIDS WEIGHT AND VOLUME EQUIVALENTS	1950
G101 GENERAL.....	1950
APPENDIX H —HAZARDOUS MATERIALS MANAGEMENT PLAN (HMMP) AND HAZARDOUS MATERIALS INVENTORY STATEMENT (HMIS) INSTRUCTIONS	1954
H101 HMMP	1954
H102 HMIS	1955
H103 EMERGENCY PLAN.....	1956
H104 REFERENCED STANDARDS	1957
APPENDIX I —FIRE PROTECTION SYSTEMS— NONCOMPLIANT CONDITIONS.....	1965
I101 NONCOMPLIANT CONDITIONS	1965
I102 REFERENCED STANDARDS	1967
APPENDIX J —BUILDING INFORMATION SIGNS	1969
J101 GENERAL.....	1969
J102 REFERENCED STANDARDS	1972
APPENDIX K — CONSTRUCTION REQUIREMENTS FOR EXISTING AMBULATORY CARE FACILITIES.....	1975



TABLE OF CONTENTS

K101 GENERAL	1975
K102 FIRE SAFETY REQUIREMENTS FOR EXISTING AMBULATORY CARE FACILITIES	1975
K103 INCIDENTAL USES IN EXISTING AMBULATORY CARE FACILITIES.....	1978
K104 MEANS OF EGRESS REQUIREMENTS FOR EXISTING AMBULATORY CARE FACILITIES.....	1980
K105 REFERENCED STANDARDS	1981
APPENDIX L —REQUIREMENTS FOR FIRE FIGHTER AIR REPLENISHMENT SYSTEMS	1984
L101 GENERAL	1984
L102 DEFINITIONS.....	1985
L103 PERMITS	1985
L104 DESIGN AND INSTALLATION.....	1985
L105 ACCEPTANCE TESTS.....	1988
L106 INSPECTION, TESTING AND MAINTENANCE.....	1989
L107 REFERENCED STANDARDS.....	1989
APPENDIX M —HIGH-RISE BUILDINGS—RETROACTIVE AUTOMATIC SPRINKLER REQUIREMENT	1992
M101 SCOPE	1992
M102 WHERE REQUIRED	1993
M103 COMPLIANCE	1993
M104 REFERENCED STANDARD	1993
APPENDIX N —INDOOR TRADE SHOWS AND EXHIBITIONS	1995
N101 GENERAL.....	1995
N102 DEFINITIONS.....	1996
N103 PUBLIC SAFETY FOR EVENTS.....	1996
N104 INTERIOR FINISH AND DECORATIVE MATERIALS	1997
N105 MULTIPLE-LEVEL BOOTHS	1997
N106 COVERED BOOTHS.....	1998
N107 DISPLAY AND STORAGE OF HAZARDOUS AND COMBUSTIBLE MATERIALS	1998
N108 MEANS OF EGRESS	1999
N109 REFERENCED STANDARDS	2000

