

TABLE OF CONTENTS

CHAPTER 1 ADMINISTRATION 1

Section	
101	General 1
102	Applicability 1
103	Department of Mechanical Inspection 1
104	Duties and Powers of the Code Official. 2
105	Approval 2
106	Permits. 3
107	Inspections and Testing 4
108	Violations 5
109	Means of Appeal 6

CHAPTER 2 DEFINITIONS 9

Section	
201	General 9
202	General Definitions 9

CHAPTER 3 GENERAL REGULATIONS 19

Section	
301	General 19
302	Protection of Structure 20
303	Equipment and Appliance Location 20
304	Installation. 21
305	Piping Support. 22
306	Access and Service Space 22
307	Condensate Disposal 23
308	Clearance Reduction 24
309	Temperature Control 25
310	Explosion Venting 25
311	Smoke and Heat Vents. 25
312	Heating and Cooling Load Calculations 25

CHAPTER 4 VENTILATION 27

Section	
401	General 27
402	Natural Ventilation 27
403	Mechanical Ventilation 27
404	Enclosed Parking Garages. 30
405	Systems Control 30
406	Ventilation of Uninhabited Spaces 30

CHAPTER 5 EXHAUST SYSTEMS 31

Section	
501	General 31
502	Required Systems 31
503	Motors and Fans 37
504	Clothes Dryer Exhaust 37
505	Domestic Kitchen Exhaust Equipment 38
506	Commercial Kitchen Grease Ducts and Exhaust Equipment. 38
507	Commercial Kitchen Hoods 41
508	Commercial Kitchen Makeup Air 43
509	Fire Suppression Systems 43
510	Hazardous Exhaust Systems 43
511	Dust, Stock and Refuse Conveying Systems 45
512	Subslab Soil Exhaust Systems. 46
513	Smoke Control Systems 46

CHAPTER 6 DUCT SYSTEMS 51

Section	
601	General 51
602	Plenums 51
603	Duct Construction and Installation 52
604	Insulation. 53
605	Air Filters 54
606	Smoke Detection Systems Control 54
607	Ducts and Air Transfer Openings 54

CHAPTER 7 COMBUSTION AIR 57

Section	
701	General 57
702	Inside Air. 57
703	Outdoor Air 57
704	Combined Use of Inside and Outdoor Air (Condition 1) 58
705	Combined Use of Inside and Outdoor Air (Condition 2) 58
706	Forced Combustion Air Supply. 58
707	Direct Connection 58
708	Combustion Air Ducts. 59
709	Opening Obstructions 59
710	Opening Location and Protection 59

CHAPTER 8 CHIMNEYS AND VENTS..... 61

Section

801	General	61
802	Vents	62
803	Connectors.....	62
804	Direct-Vent, Integral Vent, Mechanical Vent and Ventilation/Exhaust Hood Venting	64
805	Factory-Built Chimneys	65
806	Metal Chimneys	65

**CHAPTER 9 SPECIFIC APPLIANCES,
FIREPLACES AND SOLID FUEL-
BURNING EQUIPMENT..... 67**

Section

901	General	67
902	Masonry Fireplaces.....	67
903	Factory-Built Fireplaces	67
904	Pellet Fuel-Burning Appliances	67
905	Fireplace Stoves and Room Heaters	67
906	Factory-Built Barbecue Appliances	67
907	Incinerators and Crematories	67
908	Cooling Towers, Evaporative Condensers and Fluid Coolers.....	67
909	Vented Wall Furnaces	68
910	Floor Furnaces.....	68
911	Duct Furnaces	68
912	Infrared Radiant Heaters	68
913	Clothes Dryers.....	68
914	Sauna Heaters	69
915	Engine and Gas Turbine-Powered Equipment and Appliances	69
916	Pool and Spa Heaters.....	69
917	Cooking Appliances	69
918	Forced-Air Warm-Air Furnaces	69
919	Conversion Burners.....	70
920	Unit Heaters.....	70
921	Vented Room Heaters	70
922	Kerosene and Oil-Fired Stoves	70
923	Small Ceramic Kilns	71
924	Stationary Fuel Cell Power Plants.....	71

**CHAPTER 10 BOILERS, WATER HEATERS
AND PRESSURE VESSELS 73**

Section

1001	General	73
1002	Water Heaters	73

1003	Pressure Vessels.....	73
1004	Boilers	73
1005	Boiler Connections	74
1006	Safety and Pressure Relief Valves and Controls	74
1007	Boiler Low-Water Cutoff.....	74
1008	Steam Blowoff Valve.....	75
1009	Hot Water Boiler Expansion Tank.....	75
1010	Gauges.....	75
1011	Tests.....	75

CHAPTER 11 REFRIGERATION 77

Section

1101	General	77
1102	System Requirements	77
1103	Refrigeration System Classification	78
1104	System Application Requirements	78
1105	Machinery Room, General Requirements.....	82
1106	Machinery Room, Special Requirements.....	83
1107	Refrigerant Piping	83
1108	Field Test	84
1109	Periodic Testing.....	84

CHAPTER 12 HYDRONIC PIPING 85

Section

1201	General	85
1202	Material	85
1203	Joints and Connections	86
1204	Pipe Insulation.....	87
1205	Valves	87
1206	Piping Installation	87
1207	Transfer Fluid	88
1208	Tests.....	88
1209	Embedded Piping	88

**CHAPTER 13 FUEL OIL PIPING
AND STORAGE..... 89**

Section

1301	General	89
1302	Material	89
1303	Joints and Connections	89
1304	Piping Support.....	90
1305	Fuel Oil System Installation	90
1306	Oil Gauging.....	90

1307	Fuel Oil Valves	91
1308	Testing	91
CHAPTER 14 SOLAR SYSTEMS		93
Section		
1401	General	93
1402	Installation	93
1403	Heat Transfer Fluids	93
1404	Materials	94
CHAPTER 15 REFERENCED STANDARDS		95
APPENDIX A COMBUSTION AIR OPENINGS AND CHIMNEY CONNECTOR PASS-THROUGHS		101
APPENDIX B RECOMMENDED PERMIT FEE SCHEDULE		105
INDEX		107

