

Contents

90 Introduction 70– 23

Chapter 1 General

100 Definitions 70– 26

110 General Requirements for Electrical Installations 70– 63

Part I. General 70– 63

Part II. 1000 Volts, Nominal, or Less 70– 67

Part III. Over 1000 Volts, Nominal 70– 71

Part IV. Tunnel Installations over 1000 Volts, Nominal .. 70– 73

Part V. Manholes and Other Electrical Enclosures Intended for Personnel Entry 70– 74

Chapter 2 Wiring and Protection

200 Use and Identification of Grounded Conductors 70– 76

210 Branch Circuits Not Over 1000 Volts ac, 1500 Volts dc, Nominal 70– 78

Part I. General 70– 78

Part II. Branch-Circuit Ratings 70– 83

Part III. Required Outlets 70– 86

215 Feeders 70– 90

220 Branch-Circuit, Feeder, and Service Load Calculations 70– 92

Part I. General 70– 92

Part II. Branch-Circuit Load Calculations 70– 93

Part III. Feeder and Service Load Calculations 70– 94

Part IV. Optional Feeder and Service Load Calculations 70– 98

Part V. Farm Load Calculations 70– 100

Part VI. Health Care Facilities 70– 101

Part VII. Marinas, Boatyards, Floating Buildings, and Commercial and Noncommercial Docking Facilities 70– 101

225 Outside Branch Circuits and Feeders 70– 102

Part I. General 70– 102

Part II. Buildings or Other Structures Supplied by a Feeder(s) or Branch Circuit(s) 70– 104

230 Services 70– 106

Part I. General 70– 106

Part II. Overhead Service Conductors 70– 108

Part III. Underground Service Conductors 70– 109

Part IV. Service-Entrance Conductors 70– 109

Part V. Service Equipment — General 70– 112

Part VI. Service Equipment — Disconnecting Means 70– 112

Part VII. Service Equipment — Overcurrent Protection .. 70– 114

235 Branch Circuits, Feeders, and Services Over 1000 Volts ac, 1500 Volts dc, Nominal 70– 116

Part I. General 70– 116

Part II. Branch Circuits 70– 116

Part III. Feeders 70– 118

Part IV. Outside Branch Circuits and Feeders 70– 119

Part V. Services 70– 120

240 Overcurrent Protection 70– 122

Part I. General 70– 122

Part II. Location 70– 125

Part III. Enclosures 70– 128

Part IV. Disconnecting and Guarding 70– 128

Part V. Plug Fuses, Fuseholders, and Adapters 70– 129

Part VI. Cartridge Fuses and Fuseholders 70– 129

Part VII. Circuit Breakers 70– 130

Part VIII. Supervised Industrial Installations 70– 131

242 Overvoltage Protection 70– 133

Part I. General 70– 133

Part II. Surge-Protective Devices (SPDs), 1000 Volts or Less 70– 133

Part III. Surge Arresters, Over 1000 Volts 70– 134

245 Overcurrent Protection for Systems Rated Over 1000 Volts ac, 1500 Volts dc 70– 135

250 Grounding and Bonding 70– 137

Part I. General 70– 137

Part II. System Grounding 70– 139

Part III. Grounding Electrode System and Grounding Electrode Conductor 70– 145

Part IV. Enclosure, Raceway, and Service Cable Connections 70– 150

Part V. Bonding 70– 150

Part VI. Equipment Grounding and Equipment Grounding Conductors 70– 154

Part VII. Methods of Equipment Grounding Conductor Connections 70– 159

Part VIII. Direct-Current Systems 70– 161

Part IX. Instruments, Meters, and Relays 70– 162

Part X. Grounding of Systems and Circuits of over 1000 Volts 70– 162

Chapter 3 Wiring Methods and Materials

300 General Requirements for Wiring Methods and Materials 70– 166

305 General Requirements for Wiring Methods and Materials for Systems Rated Over 1000 Volts ac, 1500 Volts dc, Nominal 70– 175

310 Conductors for General Wiring 70– 177

Part I. General 70– 177

Part II. Construction Specifications 70– 178

Part III. Installation 70– 182

312 Cabinets, Cutout Boxes, and Meter Socket Enclosures 70– 190

Part I. General 70– 190

Part II. Construction Specifications 70– 194

314 Outlet, Device, Pull, and Junction Boxes; Conduit Bodies; Fittings; and Handhole Enclosures 70– 194

Part I. General 70– 194

Part II. Installation 70– 195

Part III. Pull and Junction Boxes, Conduit Bodies, and Handhole Enclosures for Use on Systems over 1000 Volts, Nominal 70– 201

Part IV. Construction Specifications 70– 202

315 Medium Voltage Conductors, Cable, Cable Joints, and Cable Terminations 70– 202

Part I. General 70– 202

Part II. Construction Specifications 70– 202

Part III. Installation 70– 205

Part IV. Ampacities 70– 206

320 Armored Cable: Type AC 70– 217

Part I. General 70– 217

Part II. Installation 70– 217

Part III. Construction Specifications 70– 218

322 Flat Cable Assemblies: Type FC 70– 218

Part I. General 70– 218

Part II. Installation 70– 218

Part III. Construction Specifications 70– 219

324 Flat Conductor Cable: Type FCC 70– 219

Part I. General 70– 219

Part II. Installation 70– 219

Part III. Construction Specifications 70– 220

326 Integrated Gas Spacer Cable: Type IGS 70– 221

Part I. General 70– 221