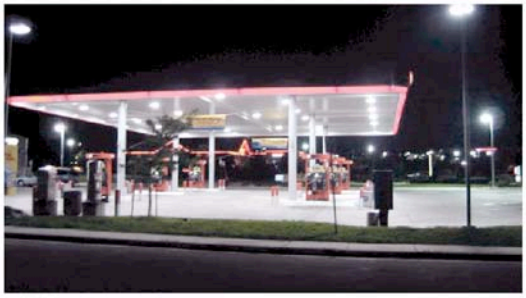
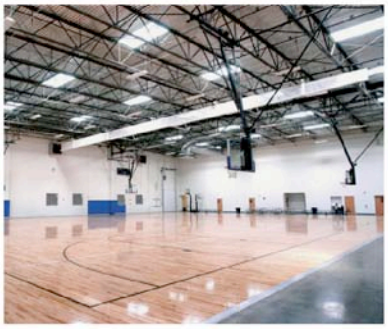
2005 BUILDING ENERGY EFFICIENCY STANDARDS

CALIFORNIA ENERGY COMMISSION





NONRESIDENTIAL COMPLIANCE MANUAL

COMMISSION CERTIFIED MANUAL

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Revision 3

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Abstract

The Nonresidential Compliance Manual includes compliance method descriptions, calculation procedures, technical data, examples, and sample compliance forms for meeting the energy efficiency *Standards* for Nonresidential Buildings, High-Rise Residential Buildings, and Hotels/Motels. This compliance manual is not a substitute for the Standards, and it should be used in conjunction with a current copy of the *2001 Energy Efficiency Standards*.

Section 25402.1 of the Public Resources Code requires that the California Energy Commission make compliance materials available, including an energy conservation manual. The *Nonresidential Manual for Compliance with the 2005 Energy Efficiency Standards* (*Manual*) is provided to meet this requirement. This compliance manual supersedes *the Nonresidential Manual for Compliance with the 2001 Energy Efficiency Standards*, and all other previous manuals, notices, and interpretations explaining compliance with the *Energy Efficiency Standards* (*Standards*) for Nonresidential Buildings, High-Rise Residential Buildings and Hotels/Motels.

Acknowledgments

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The Nonresidential Compliance Manual has evolved over the years with contributions made by many persons along the way. The 2005 Nonresidential Manual was adapted from earlier versions in response to changes to the Standards made through the 2005 update. This most recent version was developed by Architectural Energy Corporation, with assistance from Mark Hydeman of Taylor Engineering and Jon McHugh of HMG. Charles Eley of Architectural Energy Corporation was the technical editor. From the California Energy Commission, Maziar Shirakh, PE was the project manager, as well as a contributor of technical content. Bill Pennington served as both the office manager and a technical contributor. Other technical contributors from the CEC included Suzie Chan, Tav Commins, Gary Flamm, Elaine Hebert, Rob Hudler, Bruce Maeda, Nelson Peña, and Ram Verma, PE. Special thanks goes to Jon Leber, PE for his invaluable and detailed comments on both the residential and nonresidential manuals.

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Technical Assistance

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Lastly, so many others contributed helpful suggestions, comments and criticism that are impossible to show a complete list. However, their assistance is acknowledged and greatly appreciated.

In spite of all our efforts, omissions and errors are certain to occur. These, of course, are attributed to the authors alone. If a Manual user discovers an error or has a suggestion, we request that it be brought to the attention of the Energy Efficiency Hotline at 1-800-772-3300 (California) or 916-654-5106.

Table of Contents

1. Introduction ... 1-1
1.1 Organization and Content ... 1-1
1.2 Related Documents ... 1-1
1.3 The Technical Chapters ... 1-2
1.4 Why California Needs Energy Standards ... 1-2
1.5 What's New for 2005 ... 1-5
1.6 Mandatory Measures and Compliance Approaches ... 1-7
1.6.1 Mandatory Measures ... 1-8
1.6.2 Prescriptive Packages ... 1-8
1.6.3 Performance Approach ... 1-8
1.7 Scope and Application ... 1-9
1.7.1 Building Types Covered ... 1-9
1.7.2 Scope of Improvements Covered ... 1-11
1.7.3 Speculative Buildings ... 1-11
1.7.4 Mixed Use Buildings ... 1-13
1.7.5 High-rise Residential ... 1-13
1.7.6 Hotels and Motels ... 1-15
1.7.7 Live-Work Spaces ... 1-16
1.7.8 Unconditioned Space ... 1-16
1.7.9 Newly Conditioned Space ... 1-18
1.7.10 New Construction in Existing Buildings ... 1-18
1.7.11 Alterations to Occupied Spaces ... 1-19
1.7.12 Additions ... 1-21
1.7.13 Changes of Occupancy ... 1-22
1.7.14 Repairs ... 1-22
1.7.15 Scope Concepts and Definitions ... 1-23
1.8 About the Standards ... 1-28
1.8.1 California Climate Zones ... 1-30
1.8.2 Performance Approach ... 1-30

2. Compliance and Enforcement ... 2-1
2.1 Overview ... 2-1
2.2 The Compliance and Enforcement Process ... 2-1
2.2.1 Design Phase ... 2-2
2.2.2 Permit Application ... 2-3
2.2.3 Plan Check ... 2-4
2.2.4 Building Permit ... 2-4
2.2.5 Construction Phase ... 2-4
2.2.6 Building Department Field Inspection ... 2-5
2.2.7 Acceptance Testing ... 2-5
2.2.8 Field Verification and/or Diagnostic Testing ... 2-7
2.2.9 Occupancy Permit ... 2-7
2.2.10 Occupancy ... 2-8
2.3 Compliance Documentation ... 2-8
2.3.1 Construction Documents ... 2-8
2.3.2 Compliance Forms ... 2-8
2.3.3 Signing Responsibilities ... 2-9
2.4 Roles and Responsibilities ... 2-12
2.4.1 Plans Examiner Responsibilities ... 2-13

2.4.2 Field Inspector Responsibilities 2-13

3. Building Envelope 3-1
3.1 Overview 3-1
3.1.1 Prescriptive Requirements 3-2
3.1.2 Overall Envelope Approach 3-3
3.1.3 Performance Approach 3-4
3.1.4 What's New for 2005 3-4
3.2 Fenestration 3-5
3.2.1 Mandatory Measures 3-5
3.2.2 Window Prescriptive Requirements 3-12
3.2.3 Skylight Prescriptive Requirements 3-14
3.2.4 Skylights in Large Enclosed Spaces 3-17
3.2.5 Determining Fenestration U-factors 3-22
3.2.6 Determining Relative Solar Heat Gain 3-24
3.2.7 Determining Solar Heat Gain Coefficients 3-27
3.2.8 Determining Visible Light Transmittance (VLT) 3-28
3.2.9 Determining Site-Built Fenestration Performance 3-28
3.3 Opaque Envelope Insulation 3-31
3.3.1 Mandatory Measures 3-32
3.3.2 Prescriptive Requirements 3-34
3.4 Cool Roofs 3-42
3.4.1 Mandatory Measures 3-42
3.4.2 Prescriptive Requirements 3-45
3.5 Infiltration and Air Leakage 3-49
3.5.1 Fenestration and Doors 3-49
3.5.2 Joints and Openings 3-49
3.6 Relocatable Public School Buildings 3-50
3.7 Overall Envelope Approach 3-51
3.7.1 Overall Heat Loss 3-51
3.7.2 Overall Heat Gain 3-56
3.7.3 Roof Absorptance Calculation 3-58
3.8 Performance Approach 3-62
3.8.1 Opaque Surface Mass Characteristics 3-62
3.8.2 Opaque Surface Heat Transfer 3-63
3.8.3 Fenestration Heat Transfer 3-63
3.8.4 Overhangs 3-63
3.8.5 Interzone Surfaces 3-63
3.8.6 Historic Buildings 3-64
3.9 Additions and Alterations 3-64
3.9.1 Mandatory Measures for Additions and Alterations 3-64
3.9.2 Additions – Prescriptive Requirements 3-65
3.9.3 Alterations – Prescriptive Requirements 3-65
3.10 Compliance Documentation 3-67
3.10.1 ENV-1-C: Certificate of Compliance 3-67
3.10.2 ENV-2-C: Envelope Component Method 3-72
3.10.3 ENV-3-C: Overall Envelope Method 3-75
3.10.4 ENV-4-C Minimum Skylight Area for Large Enclosed Spaces 3-83

4. Mechanical Systems 4-1
4.1 Overview 4-1
4.1.1 HVAC Energy Use 4-2

4.1.2 Compliance Approaches 4-3
4.2 Equipment Requirements 4-4
4.2.1 Equipment Certification 4-5
4.2.2 Furnace Standby Loss Controls 4-6
4.2.3 Pilot Lights 4-6
4.3 Ventilation Requirements 4-9
4.3.1 Natural Ventilation 4-10
4.3.2 Mechanical Ventilation 4-10
4.3.3 Direct Air Transfer 4-17
4.3.4 Distribution of Outdoor Air to Zonal Units 4-17
4.3.5 Ventilation System Operation and Controls 4-18
4.3.6 Pre-Occupancy Purge 4-25
4.3.7 Demand Controlled Ventilation 4-27
4.3.8 Fan Cycling 4-30
4.3.9 Variable Air Volume (VAV) Changeover Systems 4-30
4.3.10 Adjustment of Ventilation Rate 4-31
4.3.11 Miscellaneous Dampers 4-31
4.3.12 Acceptance Requirements 4-32
4.4 Pipe and Duct Distribution Systems 4-33
4.4.1 Mandatory Measures 4-33
4.4.2 Prescriptive Requirements 4-40
4.4.3 Acceptance Requirements 4-43
4.5 HVAC System Control Requirements 4-43
4.5.1 Mandatory Measures 4-43
4.5.2 Prescriptive Requirements 4-54
4.5.3 Acceptance Requirements 4-67
4.6 HVAC System Requirements 4-67
4.6.1 Sizing and Equipment Selection 4-67
4.6.2 Load Calculations 4-68
4.6.3 Fan Power Consumption 4-70
4.6.4 ECM Motors for Series Style VAV Boxes 4-76
4.6.5 Electric-Resistance Heating 4-76
4.6.6 Cooling Tower Flow Turndown 4-77
4.6.7 Centrifugal Fan Limitation 4-78
4.6.8 Air Cooled Chillers 4-78
4.6.9 Historic Buildings 4-79
4.7 Service Water Heating 4-79
4.7.1 Service Water Systems 4-79
4.7.2 Pool and Spa Heating Systems 4-81
4.7.3 Service Water Heating Other Than High-rise Residential 4-83
4.7.4 High-rise Residential Service Water Heating 4-83
4.7.5 Acceptance Requirements 4-83
4.8 Performance Approach 4-83
4.8.1 Compliance With a Computer Method 4-84
4.8.2 Modeling Mechanical System Components 4-85
4.9 Additions and Alterations 4-85
4.9.1 Mandatory Measures – Additions and Alteration 4-85
4.9.2 Prescriptive Requirements – Additions 4-86
4.9.3 Prescriptive Requirements – Alterations 4-87
4.10 Glossary/Reference 4-89
4.10.1 Definitions of Efficiency 4-90

4.10.2 Definitions of Spaces and Systems 4-91
4.10.3 Types of Air 4-92
4.10.4 Air Delivery Systems 4-93
4.10.5 Return Plenums 4-93
4.10.6 Zone Reheat, Recool and Air Mixing 4-94
4.10.7 Economizers 4-94
4.10.8 Unusual Sources of Contaminants 4-99
4.10.9 Demand Controlled Ventilation 4-100
4.10.10 Intermittently Occupied Spaces 4-100
4.11 Mechanical Plan Check Documents 4-100
4.11.1 MECH-1-C: Certificate of Compliance 4-101
4.11.2 MECH-2-C Overview 4-103
4.11.3 MECH-2-C (Part 1 of 3) Air System Requirements 4-104
4.11.4 MECH-2-C (Part 2 of 3) Water Side System Requirements 4-107
4.11.5 MECH-2-C (Part 3 of 3) Service Hot Water & Pool Requirements 4-108
4.11.6 MECH-3-C: Mechanical Ventilation and Reheat 4-109
4.11.7 MECH-4-C: HVAC Misc. Prescriptive Requirements: 4-111
4.11.8 Mechanical Inspection 4-113
4.11.9 Acceptance Requirements 4-114

5. Indoor Lighting 5-1
5.1 Overview 5-2
5.1.1 Lighting Trade-offs 5-3
5.1.2 Forms, Plan Check, Inspection and Acceptance Tests 5-6
5.2 Lighting Design Procedures 5-6
5.2.1 Mandatory Measures 5-6
5.2.2 Prescriptive Approach 5-35
5.3 Performance Approach 5-54
5.4 Calculating the Lighting Power 5-55
5.4.1 Exempt Lighting 5-56
5.4.2 Actual Lighting Power Calculation 5-57
5.4.3 Determining Luminaire Wattage 5-59
5.4.4 Automatic Lighting Control Credits 5-63
5.5 Theme Parks 5-72
5.6 Exit Way and Egress Lighting 5-72
5.7 Historic Buildings 5-73
5.8 Signs 5-73
5.9 Common Lighting Systems 5-73
5.10 Simplification for Tenant Spaces 5-76
5.11 Minimum Skylight For Large Enclosed Spaces 5-80
5.12 Acceptance Requirements 5-81
5.13 High Efficacy Luminaires 5-81
5.14 Additions and Alterations 5-82
5.14.1 Mandatory Measures – Additions and Alterations 5-82
5.14.2 Prescriptive Measures – Additions 5-83
5.14.3 Prescriptive Measures – Alterations 5-83
5.15 Lighting Plan Check Documents 5-88
5.15.1 LTG-1-C: Certificate of Compliance 5-89
5.15.2 LTG-2-C: Indoor Lighting Schedule 5-95
5.15.3 LTG-3-C: Portable Lighting Worksheet 5-96
5.15.4 LTG-4-C: Lighting Controls Credit Worksheet 5-98

5.15.5 LTG-5-C5: Indoor Lighting Power Allowance 5-99
5.15.6 LTG-6-C: Tailored Method Worksheet..... 5-100
5.15.7 LTG-7-C: Room Cavity Ratio Worksheet (>3.5) 5-105
5.15.8 LTG-8-C: Common Lighting Systems Method Worksheet..... 5-106
5.15.9 LTG-9-C: Line Voltage Track Lighting Worksheet 5-107
5.15.10 OLTG-4-C: Indoor Signs Worksheet..... 5-108

6. Outdoor Lighting and Signs 6-1
6.1 Overview..... 6-1
6.1.1 History and Background..... 6-2
6.1.2 Scope and Application 6-2
6.1.3 Summary of Requirements 6-3
6.2 Mandatory Measures..... 6-5
6.2.1 Certification 6-5
6.2.2 Minimum Lamp Efficacy..... 6-6
6.2.3 Cut-Off Luminaires..... 6-7
6.2.4 Automatic Shutoff Controls 6-10
6.2.5 Multi-Level Switching 6-11
6.3 Lighting Zones..... 6-12
6.3.1 Overview 6-12
6.3.2 Lighting Zone Adjustments by Local Jurisdictions 6-14
6.4 Outdoor Lighting Power Allowances..... 6-18
6.5 General Site Illumination 6-18
6.5.1 Illuminated Area 6-19
6.5.2 Lighting Applications 6-20
6.5.3 Adjustments to Outdoor Lighting Power Allowances 6-24
6.6 Specific Lighting Applications 6-28
6.6.1 Building Facades 6-29
6.6.2 Sales Frontage..... 6-33
6.6.3 Lighting Vehicle Service Stations..... 6-35
6.6.4 Service Station Hardscape Areas 6-36
6.6.5 Lighting Under Canopies 6-37
6.6.6 Ornamental Lighting..... 6-38
6.6.7 Drive-up Windows..... 6-39
6.6.8 Guarded Facilities 6-40
6.6.9 Outdoor Dining..... 6-41
6.7 Alterations and Additions for Outdoor Lighting 6-43
6.7.1 Outdoor Lighting Additions – Mandatory and Lighting Power Density Requirements..... 6-43
6.7.2 Outdoor Lighting Alterations 6-44
6.7.3 Outdoor Lighting Alterations – Mandatory Requirements 6-44
6.7.4 Outdoor Lighting Alterations – Lighting Power Allowance Requirements..... 6-45
6.8 Signs 6-46
6.8.1 Component Performance Method..... 6-48
6.8.2 Prescriptive Approach..... 6-48
6.8.3 Sign Additions 6-51
6.8.4 Sign Alterations..... 6-51
6.9 Outdoor and Sign Lighting Plan Check Documents 6-53
6.9.1 OLTG-1-C: Certificate of Compliance 6-54
6.9.2 OLTG-2-C 6-59
6.9.3 OLTG 3-C Forms 6-64

6.10 Lighting Inspection 6-70
6.11 Reference/Glossary 6-70

7. Performance Approach 7-1
7.1 Performance Concepts 7-1
7.1.1 Minimum Capabilities 7-2
7.1.2 CEC Approval 7-2
7.1.3 Time Dependent Valuation (TDV) 7-2
7.1.4 Professional Judgment 7-3
7.2 Analysis Procedure 7-5
7.2.1 General Procedure 7-5
7.2.2 Basic Data Entry 7-6
7.2.3 Calculating TDV Energy 7-7
7.3 Application Scenarios 7-8
7.3.1 Whole Building Compliance 7-8
7.3.2 Compliance by Permit Stage 7-9
7.3.3 Additions Performance Compliance 7-10
7.3.4 Alterations Performance Compliance 7-12
7.3.5 Alternate Performance Compliance Approach 7-13
7.4 Enforcement and Compliance 7-13
7.4.1 Approaches 7-15
7.4.2 Compliance Forms 7-15
7.4.3 Performance Inspection 7-16

8. Acceptance Requirements 8-1
8.1 Overview 8-1
8.1.1 Roles and Responsibilities 8-2
8.1.2 When Are Acceptance Tests Required? 8-3
8.1.3 Why Test for Acceptance? 8-5
8.2 Acceptance Testing Process 8-6
8.2.1 Plan Review 8-7
8.2.2 Construction Inspection 8-7
8.2.3 Testing 8-7
8.2.4 Certificate of Occupancy 8-8
8.3 Forms 8-8
8.4 Mechanical Acceptance Testing Overview 8-8
8.4.1 Administration 8-8
8.4.2 Field Process 8-9
8.4.3 Mechanical Acceptance Test Issues 8-10
8.4.4 Sensor Calibration 8-12
8.4.5 Air and Water Measurements 8-13
8.4.6 Factory Air-Side Economizer Certification Procedure 8-13
8.4.7 Alternate Test Procedures for Hydronic System Controls Acceptance 8-14
8.5 Lighting Acceptance Testing Overview 8-15
8.5.1 Administration 8-15
8.5.2 Constructability Plan Review 8-16
8.5.3 Field Process 8-16
8.5.4 Lighting Acceptance Test Issues 8-17
8.6 Test Procedures for Mechanical Systems 8-17
8.6.1 NJ.3.1 Variable Air Volume Systems Outdoor Air Acceptance 8-19
8.6.2 Test Procedure: NJ.3.1 Variable Air Volume Systems Outdoor Air Acceptance, Use MECH-2-A 8-21

8.6.3 NJ.3.2 Constant Volume Systems Outdoor Air Acceptance 8-25
8.6.4 Test Procedure: NJ.3.2 Constant Volume Systems Outdoor Air Acceptance, Use Form MECH-2-A 8-26
8.6.5 NJ.4.1 Constant Volume Packaged HVAC Systems Acceptance 8-28
8.6.6 Test Procedure: NJ.4.1 Constant Volume Packaged HVAC Systems Acceptance, Use Form MECH-3-A 8-30
8.6.7 NJ.7.1 Air-Side Economizer Acceptance 8-35
8.6.8 Test Procedure: NJ.7.1 Air-Side Economizer Acceptance, Use Form MECH-4-A 8-37
8.6.9 NJ.5.1 Air Distribution Acceptance 8-46
8.6.10 Test Procedure: NJ.5.1 Air Distribution Acceptance, Use Form MECH-5-A 8-48
8.6.11 NJ.8.1 Demand Control Ventilation Acceptance..... 8-56
8.6.12 Test Procedure: NJ.8.1 Demand Control Ventilation Acceptance, Use Form MECH-6-A 8-57
8.6.13 NJ.9.1 Supply Fan Variable Flow Controls Acceptance 8-61
8.6.14 Test Procedure: NJ.9.1 Supply Fan Variable Flow Controls Acceptance, Use Form MECH-7-A 8-63
8.6.15 NJ.10.1 Variable Hydronic Flow Controls Acceptance 8-65
8.6.16 NJ.10.2 Automatic Isolation Controls Acceptance..... 8-69
8.6.17 NJ.10.3 Supply Water Temperature Reset Controls Acceptance..... 8-71
8.6.18 NJ.10.4 Water-loop Heat Pump Controls Acceptance..... 8-76
8.6.19 NJ.10.5 Pump Variable Frequency Drive Controls Acceptance 8-80
8.7 Test Procedures for Lighting Equipments 8-85
8.7.1 NJ.6.1 Automatic Daylighting Control Acceptance 8-86
8.7.2 Test Procedures: NJ.6.1 Automatic Daylighting Control Acceptance, Use Form LTG-3-A 8-87
8.7.3 NJ.6.2 Occupancy Sensor Acceptance 8-94
8.7.4 Test Procedure: NJ.6.2 Occupancy Sensor Acceptance, Use form LTG-2-A 8-95
8.7.5 NJ.6.3 Manual Daylighting Control Acceptance..... 8-97
8.7.6 Test Procedures: NJ.6.3 Manual Daylighting Control Acceptance, Use form LTG-2-A 8-98
8.7.7 NJ.6.4 Automatic Time Switch Control Acceptance..... 8-101
8.8 Mechanical Forms for Acceptance Requirements..... 8-104
8.9 Lighting Forms for Acceptance Requirements 8-116

9. INDEX..... 9-1

Appendix A Compliance & Acceptance Forms A-1

Appendix B Excerpts from the Appliance Standards... .....B-1

List of Figures

Figure 1-1 – Electricity Savings Related to the 2005 Standards 1-3
Figure 1-2 – Demand Savings Related to the 2005 Standards 1-4
Figure 1-3 – Type of Conditioned Space and Scope of Compliance.....1-17
Figure 1-5 – California Climate Zones.....1-31
Figure 2-1 – The Compliance and Enforcement Process.....2-2
Figure 3-1 – Nonresidential Climate Regions.....3-3
Figure 3-2 – Sample Default Temporary Label 3-7
Figure 3-3 – CEC Default U-Factor and SHGC Label Certificate.....3-10
Figure 3-4 – CEC Alternate Default U-Factor and SHGC Label Certificate 3-11

Figure 3-5 – Four Surface Orientations 3-13
Figure 3-6 – Skylight Area 3-16
Figure 3-7 – Present Value Savings of Skylight 3-17
Figure 3-8 – Daylit Area under Skylights 3-19
Figure 3-9 – Overhang Dimensions 3-25
Figure 3-10 – Graph of Overhang Factors 3-26
Figure 3-11 – Slope of a Wall or Window (Roof or Skylight slope is less than 60°) 3-31
Figure 3-12 – Acceptable Metal to Metal Roof Constructions 3-36
Figure 3-13 – Classes of Wall Constructions. 3-39
Figure 3-14 – Requirements for Floor/Soffit Surfaces 3-41
Figure 3-15 – Classes of Floor Constructions. 3-41
Figure 3-16 – Sample CRRC Label 3-43
Figure 3-17 – Tradeoffs between Cool Roof Reflectance and Emittance 3-45
All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of the UBC. 3-69
Figure 4-1– Typical Building Electricity Use 4-2
Figure 4-2 – VAV Reheat System with a Fixed Minimum outdoor Air Damper Setpoint 4-19
Figure 4-3 – Energy Balance Method of Controlling Minimum Outdoor Air 4-21
Figure 4-4 – Return Fan Tracking 4-22
Figure 4-5 – Airflow Measurement of 100% Outdoor Air 4-23
Figure 4-6 – Injection Fan with Dedicated Minimum Outdoor Air Damper 4-24
Figure 4-7 – Minimum Outdoor Air Damper with Pressure Control 4-25
Figure 4-8 – Pre-Occupancy Purge Flowchart 4-26
Figure 4-9 – Heat Pump Auxiliary Heat Control, Two-Stage and Outdoor Air Thermostats 4-44
Figure 4-10 – Proportional Control Zone Thermostat 4-45
Figure 4-11 – Shut-Off and Setback Controls Flowchart 4-49
Figure 4-12– Isolation Methods for a Central VAV System 4-52
Figure 4-13 – Dual-Maximum VAV Box Control Diagram 4-56
Figure 4-14 – Air-Side Economizer Schematic 4-57
Figure 4-15 – Typical Air-Side Economizer Control Sequencing 4-58
Figure 4-16 – Economizer Flowchart 4-60
Figure 4-17 – Single-Fan Dual-Duct System 4-61
Figure 4-18 – VAV Fan Performance Curve 4-63
Figure 4-19 – Energy Efficient Supply Air Temperature Reset Control for VAV Systems 4-64
Figure 4-20 – Fan Power Flowchart 4-73
Figure 4-21 – Service Water Heating Flowchart 4-82
Figure 4-22 – Integrated Air Economizer 4-95
Figure 4-23 – Nonintegrated Air Economizer 4-96
Figure 4-24 – “Strainer-Cycle” Water Economizer 4-97
Figure 4-25 – Water-Precooling Water Economizer with Three-Way Valves 4-97
Figure 4-26 – Water-Precooling Water Economizer with Two-Way Valves 4-98
Figure 4-27 – Air-Precooling Water Economizer 4-99
Figure 5-1– Lighting Energy Use 5-2
Figure 5-2 – Lighting Compliance Flowchart 5-5
Figure 5-3 – Multi-Level Switching Options 5-14
Figure 5-4 – Timed Manual Override 5-15
Figure 5-5 – Occupant-Sensing Device Shut-off 5-15
Figure 5-6 – Plan View of Daylit Area near Window 5-19
Figure 5-7 – Elevation View of Daylit Area under Skylight 5-19
Figure 5-8 – Well Efficiency Nomograph 5-22
Figure 5-9 – Combined Multi-level and Daylit Area Switching 5-32

Figure 5-10 – Lighting Plan Showing Daylit Areas and Circuits (20 ft ceiling height)..... 5-33
Figure 5-11 – Complying Switching Controls Strategies 5-34
Figure 5-12 – Fluorescent and HID Power Draw in Response to Daylight..... 5-34
Figure 5-13 – Lighting Power Density Calculation Flowchart. 5-35
Figure 5-14 – Calculating Lighting Area 5-38
Figure 5-15 – Chandelier Dimensions 5-39
Figure 5-16 – Occupancy Sensor with Manual Multi-level Switches 5-65
Figure 5-17 – Occupant Sensors with Multi-Level Control: "Inboard/Outboard" Approach. 5-66
Figure 5-18 – Occupant Sensors with Multi-Level Control: Alternate Luminaire Approach..... 5-67
Figure 5-19 – Photocell Dimming 5-69
Figure 5-20 – Lighting Power Density Calculation Flowchart For Simplified Tenant Spaces.. 5-76
Figure 6-1 – Energy Consumption by End-Use 6-1
Figure 6-2 – Outdoor Lighting Compliance Flowchart 6-4
Figure 6-3 – Outdoor Luminaires Classifications..... 6-9
Figure 6-4 – Example of US Census Bureau Information 6-17
Figure 6-5 – Façade Lighting..... 6-30
Figure 6-6 – Outdoor Sales Frontage..... 6-34
Figure 6-7 – Vehicle Service Station 6-35
Figure 6-8 – Service Station Hardscape Areas 6-36
Figure 6-9 – Canopy Lighting 6-38
Figure 6-10 – Ornamental Lighting..... 6-39
Figure 6-11 – Drive-up Windows 6-40
Figure 6-12 – Outdoor Dining 6-42
Figure 6-13 – Unfiltered Sign..... 6-47
Figure 6-14 – Externally Illuminated Sign Using Flood Lighting 6-47
Figure 6-15 – Multi-faced sign 6-48
Figure 6-16 – Single-faced Internally Illuminated Cabinet Sign with Fluorescent Lamp and Translucent Face 6-49
Figure 6-17 – Double-faced Internally Illuminated Cabinet Sign with Fluorescent Lamp and Translucent Faces 6-49
Figure 7-1 – Annual TDV Energy Use Summary (Sample of PERF-1, Part 2 of 3)..... 7-4
Figure 8-1 – Window Daylit Area..... 8-88
Figure 8-2 – Elevation View of Daylit Area under Skylight 8-88
Figure 8-3 – Window Daylit Area..... 8-99
Figure 8-4 – Elevation View of Daylit Area under Skylight 8-99

List of Tables

Table 1-1 – Nonresidential vs. Residential Standards..... 1-11
Table 2-1 – Measures Requiring Acceptance Testing..... 2-6
Table 2-2 – Acceptance Forms 2-7
Table 2-3 – Compliance Forms 2-9
Table 3-1 – Maximum Air Infiltration Rates 3-12
Table 3-2 – Window Requirements 3-14
Table 3-3 – Skylight Requirements 3-15
Table 3-4 – Standards Table 143-F Minimum Skylight Area to Daylit Floor Area or Minimum Skylight Effective Aperture in Low-Rise Enclosed Spaces >25,000 ft^2 directly Under a Roof 3-19
Table 3-5 – Acceptable Methods for Determining U-factors..... 3-22
Table 3-6 – Standards Table 116-A Default Fenestration Product U-Factors..... 3-24
Table 3-7 – Overhang Factors..... 3-26

Table 3-8 – Methods for Determining SHGC 3-28
Table 3-9 – Insulation Materials Requiring Certification 3-32
Table 3-10 – Roof/Ceiling Requirements 3-35
Table 3-11 – Wall Requirements 3-37
Table 3-12 – Floor/Soffit Requirements 3-40
Table 4-1 – CBC 2001 Occupant Densities (ft² /person) 4-13
Table 4-2 – Required Minimum Ventilation Rate Per Occupancy 4-14
Table 4-3 – Standards Table 123-A Pipe Insulation Thickness 4-36
Table 4-4 – Duct Insulation Requirements 4-40
Table 4-5 – Single Zone Air-Conditioner Efficiency Deemed Comparable to Duct Sealing 4-42
Table 4-6 – Mechanical Acceptance Tests 4-114
Table 5-1 – Reflectance of Light Well Surfaces 5-21
Table 5-2 – Standards Table 146-B Complete Building Method Lighting Power Density Values (Watts/ft²) 5-36
Table 5-3 – Standards Table 146-C Area Category Method - Lighting Power Density Values (Watts/ft²) 5-41
Table 5-4 – Typical RCRs 5-47
Table 5-5 – Standards Table 146-D Tailored Method Special Lighting Power Allowances 5-51
Table 5-6 – Standards Table 146-E Adjustments for Mounting Height above Floor 5-52
Table 5-7 – Standards Table 146-F Illuminance Categories A Through G Lighting Power Density Values (Watts/ft^2) 5-52
Table 5-8 – Standards Table 146-A Lighting Power Adjustment Factors 5-70
Table 5-9 – Common Lighting Systems 5-75
Table 5-10 – Standards Table 150-C 5-82
Table 6-1 – Scope of the Outdoor Lighting Requirements 6-3
Table 6-2 – Standards Table 10-114-A Lighting Zone Characteristics and Rules for Amendments by Local Jurisdictions 6-14
Table 6-3 – Standards Table 147-A General Site Illumination LPD Values 6-21
Table 6-4 – Standards Table 147-C Required Light Levels by Law through a Local Ordinance 6-24
Table 6-5 – Standards Table 147-D Adjustments for Security 6-25
Table 6-6 – Standards Table 147-B Specific Application LPD Values 6-42
Table 6-7 – Sign Compliance Alternatives 6-50
Table 8-1 – Acceptance Forms 8-8
Table 8-2 – Mechanical Acceptance Tests 8-9
Table 8-3 – Certification of Air-Side Economizer Components 8-14
Table 8-4 – Standards Table 144-C Air Economizer High Limit Shut Off Control Requirements 8-39
Table 8-5 – NG-3 Duct Leakage Tests 8-52