Reorganization

- Chapters 2, 3 and 4 Consolidated
- Chapter 7 on HERS Raters Moved to RA 2
- Field Verification and Diagnostic Testing Procedures Moved to RA 3
New Modeling Features

Attics
- Roof Pitch and Attic Geometry
- Ceiling/Framing Assembly
- Attic Ventilation
- Roof Deck (including cool roof properties)
- Reporting Requirements on CF-1R
- Calculations

Slab Model

Prorating Water Heating Energy

Mechanical ventilation
Optional Capabilities Added

- Evaporative coolers
- Evaporative condensers
- Ice Storage Air Conditioners

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State of California
New Solar Home Partnership

- Energy Efficiency Requirements
- Photovoltaic Performance Calculation
New Appendices

- Algorithms and Procedures for Calculating PV Production
- Special Features List
- Electronic Data Transfer Protocol
Organizational Changes

- Chapter 7 relocated to NA1
- Field verification and diagnostic testing for ducts relocated to NA2
- Acceptance Tests relocated to NA7
Modeling Changes

- Revised model for slabs-on-grade and below-grade walls
- Alternate Schedules provided to model lighting controls
- Procedure provided to model daylighting under skylights
- Procedure provided to model tubular skylights
- Default modeling assumptions modified for cool roofs
- Credit added for FDD (2.5.3.12)
- Additional roof layer allowed for ballasted roofs, pavers and other mass elements over the top of the roof membrane
Optional capabilities

- Multiple Hydronic Circulation Loops (3.3.16)
- Underfloor Air Distribution (3.3.17)
- Thermal Energy Storage (3.3.18)
- Distributed Energy Storage DX AC System (3.3.19)
Miscellaneous Changes

- Revisions to the reference method comparison tests
- NACM Appendix E – Algorithm for Energy Use of Distributed Energy Storage Direct-Expansion Air Conditioners

Non-residential Compliance Software Manual (ACM)

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Joint Appendices

- JA1 – Glossary
- JA2 – Reference Weather/Climate Data
- JA3 – Time Dependent Valuation (TDV)
- JA4 – U-factor, C-factor, and Thermal Mass Data
- JA5 – Reference Design for Programmable Communicating Thermostats
- JA6 – Charge Indicator Display
- JA7 – Quality Insulation Installation Procedures for Medium-Density, Closed-Cell and Low Density, Open-Cell Spray Polyurethane Foam (SPF)
- JA8 – Testing Of Light Emitting Diode Lighting Systems
Residential Appendices

- RA1 – HVAC Sizing
- RA2 – Residential HERS Documentation and Enforcement Procedures
- RA3 – Residential Field Verification and Diagnostic Test Procedures
- RA4 – Eligibility Criteria for Energy Efficiency Measures
- RA5 – Interior Mass Capacity
Nonresidential Appendices

NA1 – Nonresidential HERS Documentation and Enforcement Procedures

NA2 – Nonresidential Field Verification and Diagnostic Test Procedures

NA3 – Fan Motor Efficiencies

NA4 – Compliance Procedures for Relocatable Public School Buildings

NA5 – Envelope Tradeoff Procedure

NA6 – Alternate Default Fenestration Thermal Properties

NA7 – Acceptance Requirements for Nonresidential Buildings

NA8 – Illuminance Categories and Luminaire Power