U.S. Building Codes and Standards: Update on Changes

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ASHRAE Overview

- Founded in 1894
- 56,500+ volunteer members in more than 130 countries
  - 6,000+ student members
  - 15 regions
  - 183 chapters
  - 300 student branches

- Industry Classification
  - Consulting engineers
  - Contractors
  - Manufacturers
  - Manufacturing representatives
  - Government, health and education
  - Design build
  - Architects

- U.S./Canada (45,000+)
- Global (11,000+)

- Standard 189.1 provides total building sustainability guidance for designing, building and operating high-performance green buildings
- Has broader scope than Standard 90.1
- Partners with the International Code Council (ICC) for the International Green Construction Code (IgCC)
- Single resource on green buildings “IgCC powered by 189.1” to be published in summer 2018
Beneficial for those in design, construction, installation, commissioning, operation, maintenance and service of centralized building water systems and components

Standard 188 establishes minimum legionellosis risk management requirements for building water systems

This is the foundation of the CDC’s Toolkit entitled “Developing a Water Management Program to Reduce Legionella Growth and Spread in Buildings”
Standard 90.4 was designed to ensure only the most inefficient data centers are non-compliant

Is aggressive but has very achievable mechanical and electric efficiency requirements that save agencies money

Data centers are often the largest energy users at an agency

Works in concert with Standard 90.1

- Standard 90.1 is a benchmark for commercial building energy codes
- ASHRAE has set forth efforts to address plug load reduction and help design teams account for them when evaluating building loads with Standard 90.1
- “Regulated loads” are no longer included in a summary of energy savings in the Standard 90.1 revision in 2016
- Plug loads will continue to be a critical component in achieving Advanced Energy Design Guides
• With the help of our industry leaders and volunteers who devote many hours of their time, we are continuously reaching our goal of providing resources to all stakeholders in the buildings industry
• ASHRAE has compiled an extensive webpage of resources on Advanced Energy Design Guides, which can be found at www.ashrae.org/freeaedg