

Commercial Energy Code TAG

Meeting Notes

Date: Tuesday, March 2, 2021

Meeting Location: WebEx Event

Call to order:

Greg Metz called the meeting to order at 9:03 AM

Attendance:

TAG Members present: Greg Metz (DLI), Chris Rosival (DLI), Julianne Laure (Mortenson), Brit McAdamis (AMBO), Ben Rabe (Fresh Energy), John Smith (Michaud Cooley Erickson), Barry Greive (Target Corp.), and Gerhard Guth (MNAIA)

Guests attending: Amanda Spuckler (DLI), Chad Payment (DLI), Rich Lockrem (DLI), Don Sivigny (DLI), Lyndy Logan (DLI), Jukka Kukkonen, Angie Wiese, Eric Lacy, Kimberly Cheslak, David Williams, Katherine Teiken, Bryan Holland, Gary Thaden, Brad Fevold, Kyle Dimler, Russ Landry, Richard Hermans, Barbara Conti, Katherine Edwards, Jeffrey Mang, Diana Burk, Rachael Spires, Nicole Westfall, Ardy Goudarzi, and Karin Gredvig

Worksheet and Code Change Proposal Review:

Reviewed ASHRAE 90.1-2019 chapter 6, Table 6.8.1-10 through chapter 11 and specific code changes as described below.

ASHRAE 90.1-2019, Table 6.8.2 Minimum duct insulation R-Value

The TAG reviewed a code change proposal to replace this table with the table located in current Minnesota Rules, part 1323.0403, subpart 12a, and add a footnote to clarify requirements for exhaust ducts. The TAG consensus was to accept the code change proposal.

ASHRAE 90.1-2019, Table 6.8.3-1 Minimum piping insulation thickness heating and hot-water systems

The TAG reviewed a code change proposal to add a footnote to clarify that insulation requirements do not apply to those sections of piping used as the radiant heat source for radiant heating systems. This provision is in part 1323.0403, subpart 14 of the existing rule. The TAG consensus was to accept the code change proposal.

ASHRAE 90.1-2019, Section 6.4.4.1.2 – Exception 2

The TAG reviewed a code change proposal to modify the code to delete exception 2 to clarify that ducts located in heated spaces, semiheated spaces, or cooled spaces must be insulated. The TAG consensus was to accept the code change proposal.

ASHRAE 90.1-2019, Section 7.1.1.3 Alterations to existing buildings

The TAG reviewed a code change proposal to clarify insulation requirements for piping when building service water-heating equipment is replaced. The TAG consensus was to accept the code change proposal.

ASHRAE 90.1-2019, Section 7.5.3 Buildings with high-capacity service water-heating systems

The TAG reviewed a code change proposal to require gas service water-heating equipment to have a minimum thermal efficiency of 92 percent when installed in new buildings. An exception to this requirement is when 50 percent of the annual service water-heating requirement is provided by site-solar. The TAG consensus was to accept the code change proposal.

ASHRAE 90.1-2019, Section 8.4.2 Automatic receptacle control

The TAG reviewed a code change proposal that would modify the code to delete section 8.4.2. The TAG and the members of the public discussed how automatic receptacle control is costly and unpopular with building occupants who circumvent it by plugging power strips into receptacles without automatic control. However, automatic receptacle control technology is safe and provides energy savings. The TAG accepted the code change proposal.

ASHRAE 90.1-2019, Section 3.2 Definitions, Section 8.4.3.1 Monitoring, and proposed section 9.4.4 Lighting for plant grown and maintenance

The TAG reviewed a code change proposal to add definitions of greenhouse and photosynthetic photon efficacy, modify section 8.4.3.1 to require new buildings to monitor the electrical energy use of lighting used for plant growth and maintenance, and add section 9.4.4 to address lighting requirements for plant growth and maintenance. The TAG consensus was to accept the code change proposal.

Proposed section 8.4.5 Electric infrastructure for combustion water heating equipment

The TAG reviewed a code change proposal to add a section to require buildings with combustion water heating equipment to have the electric infrastructure necessary for the future installation of a heat pump water heater. The TAG consensus was to reject the code change proposal.

Proposed sections 10.4.8 Electric vehicle charging infrastructure, 8.4.6 Electric infrastructure for residential spaces, and 8.4.7 Electric infrastructure for other combustion equipment

The author of these code change proposals withdrew them from consideration.

Proposed section 9.4.4 Parking lot lighting

The TAG reviewed a code change proposal to add a section to ASHRAE 90.1-2019 that directs code users to Minnesota Rules, chapter 8885, for parking lot lighting requirements. This provision is in the current code. The TAG consensus was to accept the code change proposal.

Proposed section 10.4.8 Electric vehicle charging infrastructure

The TAG reviewed a code change proposal to require parking facilities to be equipped with electric vehicle charging infrastructure. The proposal is outside of the scope of the Minnesota Energy Code.

ASHRAE 90.1-2019, sections 11.2 Compliance and G1.2.1 Mandatory provisions

The TAG reviewed a code change proposal to modify these sections to limit trade-offs between the building

envelope and other building systems. The TAG consensus was to accept the code change proposal.

ASHRAE 90.1-2019, Annex 1, Table B-1, U.S climate zones by state and county

The TAG reviewed a code change proposal to modify Table B-1 so Fillmore, Houston, and Winona counties remain in climate zone 5A and Becker, Clay, Grant, Kanabec, Mille Lacs, Otter Tail, and Wilkin counties are included in climate zone 6A. The TAG consensus was to accept the code change proposal.

Proposed section 10.5.1 Renewable Energy Resources

The TAG reviewed a code change proposal that adds a section to the standard with prescriptive requirements for renewable energy, including solar readiness, and modifies several other sections for consistency with proposed section 10.5.1. This proposal was tabled.

Next Meeting:

Date: March 16, 2021

Time: 9:00 AM

Location: WebEx Event

Meeting Adjourned: 11:52 AM

Prepared by: Greg Metz