

Commercial Energy Code TAG

Meeting Notes

Date: Tuesday, February 16, 2021

Meeting Location: WebEx Event

Call to order:

Greg Metz

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), Eileen McNiff (DLI), Rich Lockrem (DLI), Jeff Lebowksi (DLI), Marshall Lind, Rachael Spires, Russ Landry, Kimberly Cheslak, Eric Lacey, Katherine Teiken, Gary Thaden, Diana Burk, Barbara Conti, Karin Gredvig, Tekil Fujin, Brad Fevold, James Smith, David Williams, Nicole Westfall, Stephen Ubl, and Katherine Edwards

Worksheet and Code Change Proposal Review:

Reviewed ASHRAE 90.1-2019 chapter 6, sections 6.1 to 6.7.2.4 and specific code changes as described below.

Proposed section 6.1.1.3.6 Rooftop HVACR

The TAG reviewed a code change proposal to require curb replacement when rooftop equipment is changed and the existing roof curbs do not permit installation of roof insulation as thick as required by the current code. The TAG consensus was to accept the code change proposal with additional language that the new insulated curbs are not required where technically infeasible.

Proposed section 6.1.1.5 Prohibition of once-through water use

The TAG reviewed a code change proposal to refer code users to the restriction on once-through water use permits located in Minnesota Statutes, section 103G.271, subdivision 5. The TAG consensus was to accept the code change proposal.

ASHRAE 90.1-2019 – Exceptions to section 6.4.3.4.2

The TAG discussed modifying exception 1 to permit the use of nonmotorized (gravity back draft) dampers for exhaust and relief in buildings three stories or less in height or keeping the existing exception permitting the use

of nonmotorized dampers for an exhaust duct less than eight inches diameter that is located in Minnesota Rules, part 1323.0403, subpart 9. The TAG tabled this item for discussion at the next meeting.

ASHRAE 90.1-2019, Section 6.4.4.1.2 Duct and plenum insulation

The TAG discussed modifying this section to include current duct and plenum insulation requirements located in Minnesota Rules, part 1323.0403, subpart 12. The current rule requires R-12 insulation for outside exhaust ducts, which has caused design problems. TAG members will develop a code change proposal addressing outside ducts to discuss at the next meeting.

ASHRAE 90.1-2019, Section 6.5.3.1.3 Fan efficiency

The TAG tabled discussion of the scoping and exceptions to this section for the next meeting.

ASHRAE 90.1-2019, Section 6.5.3.7 Ventilation Design

The TAG tabled discussion of this section to the next meeting.

ASHRAE 90.1-2019 – Exception 6 to section 6.5.6.1.2

The TAG reviewed a code change proposal to modify exception 6 to require 75 percent of air to be recovered. The TAG tabled this item and will review a revised code change proposal at the next meeting.

ASHRAE 90.1-2019, Table 6.5.6.1.2 Exhaust Air Energy Recovery Requirements

The TAG discussed maintaining the existing requirements located in Minnesota Rules, part 1323.0403, subpart 8. The discussion was tabled for an upcoming meeting.

Proposed section 6.4.2.1.1 Climatic data design conditions

The TAG discussed a code change proposal to keep the existing climatic design conditions located in Minnesota Rules, part 1323.0403, subpart 1, with additional cities. The data would include extreme mean winter condition and summer temperature for each city. TAG discussion on whether using extreme mean winter condition data would lead to oversized systems or prevent system failure. Discussed was tabled for the next meeting.

Next Meeting:

Date: March 2, 2021

Time: 9:00 AM

Location: WebEx Event

Meeting Adjourned: 11:03 AM

Prepared by: Greg Metz