

Flood Resistant Design TAG

Meeting Notes

Date: Tuesday, July 6, 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), Andrea Crabtree Naves (City of Moorhead) Vincent DiGiorno (KOMA Architects & Engineers), Christian Faste (City of Burnsville), Dan Korf (Houston Engineering), and Ceil Strauss (MN DNR)

Guests attending: Amanda Spuckler (DLI), Chad Payment (DLI), Jeff Lebowski (DLI), Brittany Wysokinski (DLI), Steve Shold (DLI), Scott McKown (DLI), John Haluska, Nick Erickson, and Barbara Conti

1. Call to order

- WebEx instructions/procedures

2. Reviewed residential scoping discussed at June 22, 2021 meeting.

3. Reviewed chapter 7 of ASCE 24-14 requirements for electrical, plumbing, and mechanical systems.

- The TAG members' consensus is that chapter 7 of ASCE 24-14 should be adopted as the requirements for electrical, plumbing, and mechanical systems rather than the language of IRC section R322.1.6.
- TAG members reviewed Table 7-1. The requirements for minimum elevation of utilities and equipment is inconsistent with what is permitted by Minnesota Rules, chapter 6120. The TAG consensus was to revise the table to eliminate the references to base flood elevation and require utilities and equipment to comply with design flood elevation plus 1 foot.
- TAG consensus is to revise the definition for "design flood elevation" to include a stage increase of 6 inches for consistency with Minnesota Rules, chapter 6120.
- Modifications to Section 7.4 Mechanical, Heating, Ventilation, and Air Conditioning Systems to address existing buildings below flood elevation will be discussed at a future meeting.

4. Reviewed existing Minnesota Rules, chapter 1335, and ASCE 24-14, chapter 1, as discussed below.

Minnesota Rules, part 1335.0200

The TAG members' consensus is to adopt chapters 1 to 9 of ASCE 24-14 and repeal the current rule adopting the 1972 edition of "Flood Proofing Regulations."

ASCE 24-14, Section 1.2 Definitions

- Flood hazard map. TAG members' consensus is to modify the definition of "flood hazard map" so it is the same as the definition for "official floodplain zoning map" in current part 1335.0300.
- Design flood elevation. The TAG members' consensus is to repeal the definition for "regulatory flood datum" in current part 1335.0400. This definition will be replaced with a definition for "design flood elevation." The definition for "design flood elevation" will specify that wave height only applies to coastal areas and design flood elevation includes up to 6 inches of stage increase.
- Stage increase. The TAG members' consensus is to add a definition of "stage increase." The definition will be the same as that used in Minnesota Rules, chapter 6120.
- Floodplain administrator. The TAG members' consensus is to add a definition of "floodplain administrator" as the official or authority that enforces Minnesota Rules, chapter 1335.
- Substantial improvement. The TAG members' consensus is that current market value rather than market value at the time of nonconformity should be used when determining if a building has undergone substantial improvement. The TAG members also discussed whether a building should be considered substantially improved if the improvements occurred during a one year, five year, or ten-year period.
- Substantial damage. The TAG members discussed how this definition could impact replacement of a furnace, particularly when the rest of the building is not substantially damaged. The discussion of this definition is tabled for the next meeting.

ASCE 24-14, Section 1.1 Scope

The TAG members discussed modifications to section 1.1 to address nonconforming uses and existing buildings. The TAG members tabled discussion of when additions should be considered a substantial improvement to a building. The TAG consensus is that scoping requirements are to include the following: the assessor notifying the floodplain administrator of nonconforming uses which have been discontinued for 12 months; that uses that are nuisances are not permitted to continue as nonconforming uses; and relocated buildings shall comply with the flood design requirements for new construction.

Next Meeting:

Date: July 20, 2021

Time: 9:00 AM

Location: WebEx Event

Meeting Adjourned: 11:00 AM

Prepared by: Greg Metz