

# Flood Resistant Design TAG

## Meeting Notes

**Date:** Tuesday, July 20, 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), and Ceil Strauss (MN DNR)

TAG members absent: Dan Korf (Houston Engineering)

Guests attending: Amanda Spuckler (DLI), Chad Payment (DLI), Jeff Lebowksi (DLI), Rich Lockrem (DLI), Eileen McNiff (DLI), Steve Shold (DLI), Mike Bunnell (DLI), Nick Erickson, and Barbara Conti

#### 1. Call to order

- WebEx instructions/procedures

2. Reviewed existing Minnesota Rules, chapter 1335, 1972 edition of "Flood Proofing Regulations," and ASCE 24-14, as discussed below.

#### ASCE 24-14, Section 1.2 Definitions

- Substantial improvement. The TAG members' consensus is to modify the definition to include any alteration, addition, or repair work that occurred within the past five calendar years. This is consistent with requirements in the Minnesota Conservation Code for Existing Buildings definition of Substantial Structural Alteration.
- Substantial damage. The TAG members' consensus is to modify the definition so that the cost evaluation is based on the market value of the structure at the time just before the damage occurred. An exception is added for one-for-one equipment replacement.
- The TAG members' consensus is that code users should comply with the most restrictive definition when a term is defined in both Minnesota Rules, chapter 1335 and chapter 6120.

#### ASCE 24-14, Section 1.1 Scope

The TAG members' consensus is to repeal current Minnesota Rules, parts 1335.0500 and 1335.600, and replace them with ASCE 24-14, section 1.1. The TAG members' consensus was to modify section 1.1 to address nonconforming uses.

#### Minnesota Rules, part 1335.0900

The TAG members' consensus is to repeal current part 1335.0500 because ASCE 24-14 section 1.1 has similar requirements.

#### Minnesota Rules, part 1335.1000

The TAG members' consensus is to repeal current part 1335.0500 because the statement of intention is redundant due to permitting and other requirements.

#### ASCE 24-14 Section 1.1.3 Permit Application

The TAG members' consensus is to change "primary flood hazard area" to "flood hazard areas."

#### ASCE 24-14 Section 1.1.4 Construction documents

The TAG members' consensus is to add an exception stating that construction documents not required to be certified by a licensed design professional in accordance with Minnesota Rules, part 1800.5200 must be certified by a structural engineer licensed in Minnesota but are not required to be certified by a licensed architect.

#### ASCE 24-14 Section 1.1.5 Contingency Plan

The TAG consensus is to modify this section to apply to commercial buildings only.

#### 1972 edition of "Floodproofing Regulations" Section 208 Public Notice of Flood Hazard

The TAG members' consensus is that ASCE 24-14 should not be modified to include a requirement similar to the requirements of section 208 of "Floodproofing Regulations." Section 208 requires public notice of flood hazard and this requirement is unnecessary because of publicly available flood maps.

#### ASCE 24-14 Section 1.1.7 Provision of Safe Refuge: New Buildings and Structures

The TAG members' consensus is to modify section 1.1.7 of ASCE 24-14 to change "ground elevation" to "building access" to clarify code requirements. The TAG members' consensus is to require this section to apply to flood hazard areas where the depth times the water velocity is greater than 4 for consistency with other requirements.

#### Minnesota Rules, part 1335.1500

The TAG members' consensus is to require posting of safe refuge at building entrances, standpipe locations, fire department connection locations, fire command center locations, flood refuge areas, and stairwells that descend below the Design Flood Elevation located at the story below the design flood refuge area.

#### ASCE 24-14 Section 1.1.9 Placards

This section will be modified to include the scoping and locations that will be used for posting.

#### Minnesota Rules, part 1335.1700

The TAG members' consensus is to repeal this rule part because the term "habitable space" is confusing and not used in ASCE 24-14.

#### ASCE 24-14 Section 1.5.1

The TAG members' consensus is to modify section 1.5.1 to require new structures and substantial improvements to comply with the Minnesota State Building Code.

#### ASCE 24-14 Section 6.2.1

The TAG members' consensus is to add an exception for dry floodproofing on the lowest floor of residential buildings when the building is constructed in compliance with FEMA Technical Bulletin 10-01.

#### Minnesota Rules, part 1335.1900

The TAG members' consensus is to repeal part 1335.1900 because of the formatting of ASCE 24-14.

#### ASCE 24-14 Section 6.2.2

The TAG members' consensus is to add a definition for waterproofing that only permits not greater than 3 pounds of water per 1000 square feet in a 24-hour period. Section 6.2.2 is modified to require waterproofing for buildings that are constructed in compliance with FEMA Technical Bulletin 10-01.

#### Minnesota Rules, part 1335.1950

The TAG members' consensus is to repeal this rule part because ASCE 24-14 includes similar requirements.

#### ASCE 24-14 Section 2.3

The TAG members' consensus is to add exception that permits waterproofing of the lowest floor when the building is constructed in compliance with FEMA Technical Bulletin 10-01.

#### Minnesota Rules, part 1335.2000

The TAG members' consensus is to repeal this rule part because ASCE section 1.5.3.1 has similar requirements for geotechnical considerations.

### **Next Meeting:**

Date: August 3, 2021

Time: 9:00 AM

Location: WebEx Event

**Meeting Adjourned:** 11:00 AM

**Prepared by:** Greg Metz