

Construction Codes Advisory Council





Deputy Commissioner Kate Perushek Department Update



Director – Todd Green
CCLD Division Update



Assistant Director – Greg Metz
CCLD Division Update



Building Official Training Grants Program

Greg Metz, Assistant Director CCLD | State Building Official

BOT Grants- training the next generation

Eight grants at \$65,000 each to hire a full-time apprentice building inspector

- Moorhead
- Sartell
- Shakopee
- St. Paul
- Worthington
- Chaska
- La Crescent
- West St. Paul

- Provide supplemental funding so that jurisdictions don't need to bear the entire burden of training up new employees
- State coaching and counseling support for grantees and those administering the program
- Assistance with grant application writing upon request



Rulemaking: Adult Sized Changing Facilities

Reviewed & Approved during the last meeting. One non-material change from OGC on Line 2.9 to clarify these shall be placed in single user toilet rooms that include only one water closet and one lavatory. Informational, no action required.



Rulemaking: Window Cleaning Safety Features

Greg Metz, Assistant Director CCLD | State Building Official

Window Cleaning Safety TAG

Name	Role	Organization	Representing
Greg Metz	Manager- Code Development	MN DLI/CCLD	Construction Codes Coordination
Rob Balsavich	OSHA Compliance Inspector	MN DLI/ OSHA	Worker Safety
Scott Anderson	Code Enforcement	Minneapolis Construction Code Services	Large Municipalities
Bob Spafford	Professional Window Cleaner	Columbia Building Services	SEIU Local 26
Larry Farris	Construction Codes Specialist	BKV Group	Large Building Design
Shelonda Marie-Alves	Municipal Code Enforcement	City of St. Paul	CCAC/ AMBO
Peter Haag	Minnesota Architects	BWBR Architects	MN- AIA
Ken Hines	Construction Project Manager	CBS Construction Services	Commercial Builder
David Kegler	Commercial Construction Quality Assurance	McGough Construction	Commercial Builder
Kevin Ingbretson	Professional Window Cleaner		SEIU Local 26
Michael LaSage	Professional Window Cleaner	Columbia Building Services	SEIU Local 26
Arne Grant	Engineer		CCAC

Rule Recommendation: Window Cleaning Safety Features



Revisiting the Rule Recommendation

TAG recommends:

- Adopting ANSI/IWCA I-14.1-2001
- Requiring all windows in new construction to provide for safe window cleaning
- Existing buildings undergoing alterations shall comply if windows can't be safely cleaned and the alterations work area can include provisions for safe window cleaning.

Rule Recommendation: Window Cleaning Safety Features



Building Code focuses on:

- Having designers identify cleaning methods selected from ANSI/IWCA I-14.1-2001
- Prescribing building features and components required to implement the cleaning method identified.
- Clarifying limitations of the cleaning methods for the purposes of determining quantity and location of building elements

Rule Recommendation: Window Cleaning Safety Features



NEW

Modifications:

- Buildings six stories and taller with sloped roofs must have anchors installed for suspended cleaning.
- All other buildings four stories and taller must have anchors installed for suspended cleaning.

Window Cleaning Safety Features

Draft proposed rule language is included in your package.

Motion

to recommend to the commissioner to proceed with rulemaking for window cleaning safety as proposed.

Technical Advisory Group Updates

- 1300/1301/1302/1303 Administration, Certification, Special Provisions
- 1305 Commercial Building
- 1309 Residential Building
- 1311 Existing Buildings
- 1322 Residential Energy- On hold waiting for publication of the 2024 IRC
- 1341 Accessibility
- 1346 Mechanical/Fuel Gas
- 1303/1305/1309/1311 Structural Review and Coordination

Administration, Certifications & Special Provisions

1300/1301/1302/1303

Highlights of 1300

- Add definition for correctional facility
- Modified definition of IRC-1 to be single-family detached.
- IRC- 4 clarified to exclude sleeping accommodations and limited to 2,500 SF
- Allow IRC-3 buildings with more than two dwelling units allowed to be scoped to MR 1305 by exception and reclassified as R-2 Apartments
- Approvals for performance-based fire protection must include approval by the fire code authority.



Administration, Certifications & Special Provisions

1300/1301/1302/1303

Highlights of 1301 BO Certification

- Points to Credit Hours
 - 50m instruction + 10 m break = 1 CE hour
- Update to CE assigned credits to various programs and organizations recognizing the current annual schools and deleting obsolete programs.
- Building inspectors to be registered with DLI
- Building inspector competency continuing education self-reporting required



Administration, Certifications & Special Provisions

1300/1301/1302/1303

Highlights of 1302

State Building Code Construction Approvals

- Change required designer response from 14 days to 30 days
- Add Places of Public Accommodation to the administrative list

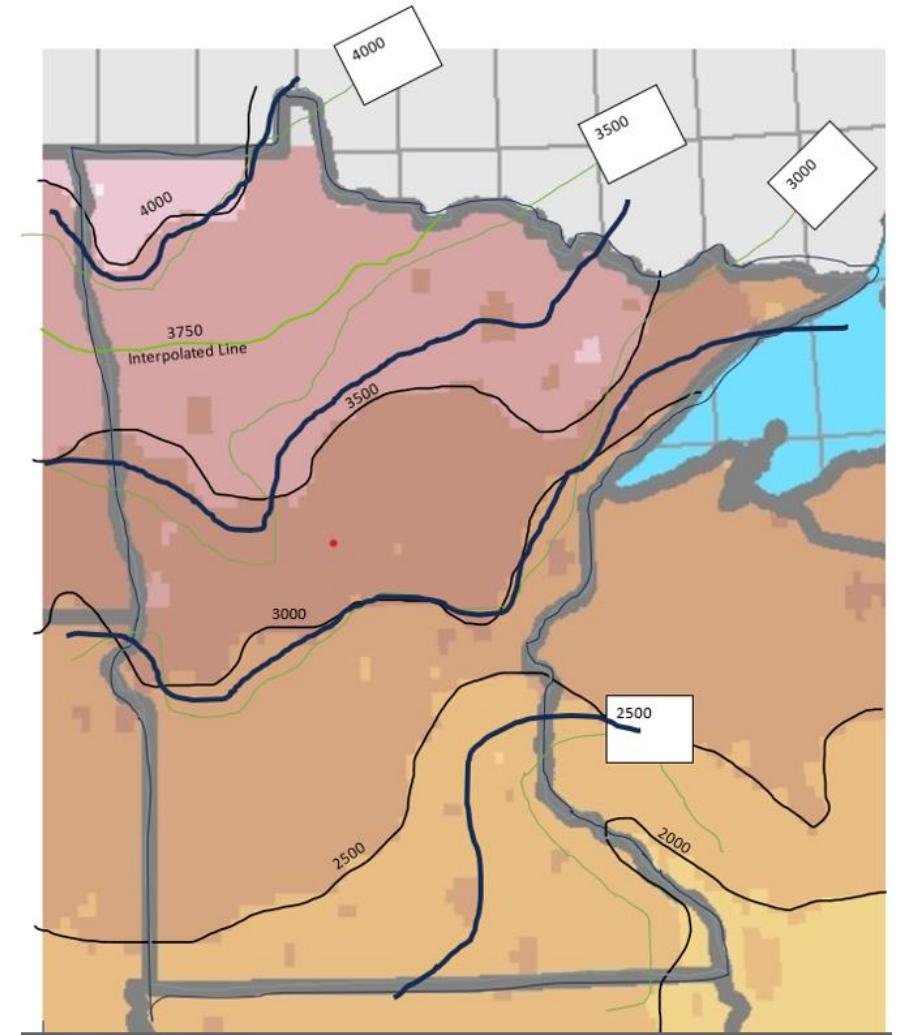


Administration, Certifications & Special Provisions

1300/1301/1302/1303

Highlights of 1303 Special Provisions

- Repeal special rules for toilets in Places of Public Accommodation
- Delete requirements for commuter vans
- Delete specific space requirements for recycling
- Modify frost depth requirements
- Modify fill and drainage requirements for frost protection of slabs on grade



Minnesota Rule 1305 Commercial Building Code

Highlights of Topics Included in 1305 Discussion

- Licensed Care Facilities with 5 or fewer classified as R-3 under 1305
- Care Suites no longer allowed as passage for second means of egress.
- Windowless buildings criteria reconsidered
- Addition of Electric Vehicle Charging scoping.
- Adding allowable area limits to R-3 Occupancies

Minnesota Rule 1305 Commercial Building Code

Highlights of Topics Included in 1305 Discussion

- Discontinue membrane penetrations into the exterior side of shaft enclosing fire barriers
- NFPA 221 Fire Walls clarification
- Recycling chutes added for MF Housing
- Privacy requirements added for public restrooms
- Multi-User restrooms not separated by sex.

Minnesota Rule 1309 Residential Code

Minnesota Rule 1309 TAG Residential Building Code

Still waiting for ICC publication of the 2024 IRC First Printing

- Once ICC publishes, staff will take approximately two months to study and prepare for TAG startup.

Minnesota Rule 1311 Existing Buildings

Minnesota Rule 1311 TAG MN Existing Buildings Code

- Energy code compliance when floor is more than 50% altered.
- EV charging facilities per MR 1305 when 10 or more parking spaces are added, not to exceed the number of new spaces.
- Elevator hoistway opening protection on floors where more than 50% of the floor is altered.
- Modifying Fire/Life Safety Risk Tables in Chapters 5 and 10.
- Change of occupancy triggers compliance with NFPA 70
- Dead-end corridor allowable lengths coordinated with Fire Code

Minnesota Rule 1322 Residential Energy

Minnesota Rule 1322 TAG Residential Energy Code

Still waiting for ICC publication of the 2024 IRC First Printing

- Once ICC publishes, staff will take approximately two months to study and prepare for TAG startup.

Minnesota Rule 1323 Commercial Energy

Minnesota Rule 1323 TAG Commercial Energy Code

- Will be evaluating 2022 ASHRAE 90.1 with strengthening amendments to meet the legislative goal
- TAG will be formed at NEXT CCAC meeting. Let me know if you are interested in participating in the TAG.
- Timing: January- May 2025

Minnesota Rule 1341 Accessibility

- Adult changing facilities- discussion requiring in special ed classrooms
- 30x48 clear floor space is changing to 30 x 54
- Turning circles enlarged to 67” but turning space is only required in a few places. Enclosed vestibules, etc. Tee option may be better option for size
- Tee turn has three different shapes and sizes as Tee One direction is larger than others, others maintain 60” so a vestibule can still be 60” wide. One of the Tee shapes 36” alternative to chamfer corners as an option.
- University of New York, Buffalo studied anthropomorphic data and found that femurs are larger, larger mobility devices and turning spaces are needed.

Minnesota Rule 1341 Accessibility

- Clear floor space holds to the current size in Type B units.
- Lots of exceptions for alterations to existing buildings.
- Modifying the A117.1 definition of an existing building as it applies to accessibility. Any building built or permit pulled prior to the date of the next code issue date is an existing building.
- Coordinating accessible toileting and bathing and assisted toileting and bathing requirements with MDH for assisted living, nursing homes, and rehab centers.
- Assisted toileting and bathing meets the requirements of a Type B unit.

Minnesota Rule 1346 Mechanical & Fuel Gas Code

- 2024 IMC & IFGC will apply to new work scoped to MR 1305 and 1311
- Chapters 12-24 of the IRC will form the residential mechanical provisions
- Added a reference to 326B.106, subdivision 17 regarding new EPA approved refrigerants not listed in the IMC
- Deleting the duct sealing exception with reference to energy code.
- Added an amendment to provide information on 6 or more vehicles as referenced in MNOSHA for commercial parking facilities.
- Replaced the Minnesota amendment regarding permanent ladders for HVAC equipment with IBC language for ship ladder access.

Minnesota Rule 1346 Mechanical & Fuel Gas Code

- Reviewed model code language for balancing and added a Minnesota amendment for hydronic balancing, consistent with current code.
- Added language for airflow amounts on existing unlisted Type I hoods for commercial kitchens.
- Review of model code language regarding cooling of make-up air for commercial kitchens.
- Reviewing the ground source loop language with MN Dept of Health for enforcement and materials.
- Reviewing 1346.5101 subpart 5, Item 13 removing the exemption for Temporary LP gas piping.

Structural Provisions Coordination

- Adopting the ASCE 7 Hazard Tool at <https://asce7hazardtool.online/> to establish ground snow loads for designing structures for more accurate site-specific ground snow loads based on current data
- Adopting tornado loads for the design and construction of Risk Category III and IV structures located in the tornado-prone regions of Minnesota
- Updating M.R. 1303.1600 Footing Depth for Frost Protection based on ASCE 32 – 01 and more current climate data
- Deleting all the current structural amendments to the Minnesota Conservations Code for Existing Buildings



State Building Official Greg Metz
Regular Business – Legislative Update



Regular Business- Code Update

Greg Metz | State Building Official

Legislative Acceleration of Residential Energy Code

- New 2038 goal: 70% efficiency improvement over 2006 IECC baseline for residential Energy.
- CSBR determined that this goal maximizes the practical efficiency.
- Energy production on homes will NOT be required by the code.
- Focus on efficiency, not carbon reduction, so not fuel sensitive.



Residential Energy Code TAG	Name	Role	Organization	Representing
	Mike Thomas	Low-Resource Housing Advocate	MN MHFA	
	Mike Robertson	Low-Resource Housing Advocate	Habitat for Humanity	NGO/Home builders
	Mike Allen	Residential Builder	Mike Allen Home Builders	BAM
	Steve Ubl	Municipal Code Enforcement	City of St. Paul	Building Officials
	Steve Shold	Residential Energy Code SME (Leader)	MN DLI/CCLD	State Rulemaking
	Don Sivigny	Energy Code SME (Co-Leader)	MN DLI/CCLD	Code Enforcement
	John Smith	Mechanical engineer	Retired	Practical Engineering
	Rebecca Olson	Director- Residential Programs	MN Ctr for Energy & Environment	Energy Advocacy
	Eric Fowler	Building Efficiency, decarbonization, electrification	Fresh Energy	Public Interest & Energy Conservation
	Travis Dunn	Municipal Code Enforcement	City of Hastings	AMBO
	Eric Boyd	Market Housing Advocate		Housing First MN
	Chris Rosival	Mechanical and Energy Plan Review	MN DLI/CCLD	Code coordination
	Alyssa Jagdfeld	Residential Architect	SALA Architects	MN AIA
	Jim Kummon	Residential Developer	Heirloom Properties	Small Developers
	Alison Lindburg	Energy Conservation Specialist	Midwest Energy Efficiency Alliance	Energy Advocacy

Residential Energy Code TAG

Motion to continue the scope of the current Residential Energy Code TAG to include the 2024 IECC Residential chapters as found in Chapter 11 of the 2024 IRC and consider strengthening amendments to advance toward the legislative goal established in May 2024.

Motion



New Business

Greg Metz | State Building Official



Fire Code Coordination TAG

Fire Code Coordination TAG 1305, 1311, 7511

Name	Role	Organization
Ryan Rehn	TAG Lead	MN DLI/ CCLD
Britt McAdamis	TAG Co-lead	MN DLI/ CCLD
Forrest Williams	DPS Rule Writer	MN DPS/ SFMD
Jerry Norman	Municipal Building Official	City of Rochester
Scott Oswald	Assistant Fire Chief	City of Inver Grove Heights
Vincent DiGiorno	Professional Architect	KOMA Architects/ Engineers
Jim Williamette	Plan Review Supervisor	City of St. Paul
Steve Ubl	Municipal Building Official	City of St. Paul

Fire Code Coordination TAG

Proposed TAG members

Motion

to approve the Technical Advisory Group members.



Single Exit Stairway Apartments: Safety Study

DLI charged with evaluating conditions under which single exit stairway apartment buildings up to 75 feet would achieve life safety outcomes equal or superior to currently adopted codes that regulate similar buildings.

- Study due to the Legislature December 31, 2025
- Legislation provides a non-exhaustive required stakeholder list.
- DLI will contract with a University which provides a degree program in fire protection engineering to lead the study, work with the TAG and prepare a final report.

TAG: Single Exit Stairway Study

Name	Role	Organization
Greg Metz	Building Codes Coordinator	MN DLI/ Construction Codes and Licensing
Amanda Swenson	Chief Deputy State Fire Marshal	Fire Marshal's Association of Minnesota
Patrick Farrens	Fire Chief/ Tactical Analysis	Minnesota Fire Chief's Association
		Minnesota Professional Fire Fighter's Association
Melisa Rodriguez	Fire Protection Engineer	Governor's Council on Fire Prevention
Tom Brace	Fire sprinkler system expert	National Fire Sprinkler Association
Jim Fisher	Fire Prevention Advocate	Governor's Council on Fire Prevention
Jim Williamette	Large Municipality Bldg Official	Association of Minnesota Building Officials, St. Paul
Jerry Norman	Large Municipality Bldg Official	City of Rochester
Nick Erickson	Housing Development Advocate	Housing First Minnesota
David Selinsky	Licensed Professional Architect	MN Chapter of the American Institute of Architects
Stephen Smith	Advocate for single exit stairways	Center for Building in North America
Shelonda Marie-Alves	Local Governments Representative	MN Construction Codes Advisory Council
Mary Barnett	Multi-family Housing Architect	MN Construction Codes Advisory Council

Single Exit Stairway TAG

Proposed TAG members

Motion

to approve the Technical Advisory Group members.

A copy of this presentation can be found on the Construction Codes Advisory Council's webpage

<https://www.dli.mn.gov/about-department/boards-and-councils/construction-codes-advisory-council>