

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

Model Code: 2024 IMC and IFGC

Chapter 1346 Mechanical and Fuel Gas Code, Mechanical Code Portion										To be completed by TAG members			
Item No.	Minnesota Code Section	"I" Code Section	Subject	Current Minnesota Amend	Description of Change	Safety & Health Value	Cost Impact	Recommendation A - Accept R - Reject AM - Amend or Comments	Recommendation A - Accept R - Reject AM - Amend	TAG Group Consensus	Stakeholder Consensus	Comments	
				Y or N						Y or N	Y or N		
1	1346.0050.		Incorporation by Reference	Y	Incorporate chapters 2-15 of the 2024 IMC	N	N	AM	AM	Y			
2	1346.0050.		Incorporation by Reference	Y	Change the reference to NFPA 96-2017 to NFPA 96-2024	N	N	AM	AM	Y			
3	1346.0050.		Incorporation by Reference	Y	Remove ASHRAE 62.2 as referenced	N	N	AM	Repeal	Y		Vote of 9-0 in favor with 1 abstain	
4	1346.0050.		Incorporation by Reference	Y	Change the reference to ASHRAE 154-2016 to ASHRAE 154-2022	N	N	AM				Table for future considerations	
5	1346.0201.4	201.4	Terms not defined	Y	Chapter 1300 is looking to change the definition			Need to table and revisit when the MN rules 1300 makes a decision					
6		Section 202	Ambulatory care facility	N	Added definition in 2024 for Ambulatory Care Facility	N	N	IBC has Minnesota amended definition. Suggest following IBC amended definition for consistency					
7		Section 202	Approved agency	N	Minor changes to verbiage in the 2024	N	N	IBC has almost the same definition with the only change being code official to building official, so no amendment is necessary					
8		Section 202	Balanced ventilation	N	Added definition in 2021 for balanced ventilation, changed verbiage in the 2024	N	N	Revisit when IRC Tag is started	A	N		Vote of 6-4 in favor	
9		Section 202	Ceiling radiation damper	N	Changed definition for ceiling radiation damper in the 2021. Added dynamic requirements	N	N	A	A	Y			
10	1346.0202	Section 202	Closed combustion solid fuel-burning-appliance	Y	Remove Minnesota Amendment to closed combustion solid fuel-burning-appliance	N	N	Accept: The model code language is almost identical to the Minnesota amendment	Repeal	Y		Remove Minnesota amendment	
11	1346.0202	Section 202	Commercial cooking appliances	Y	Minnesota Amendment to commercial cooking appliance.	N	N	Need to revisit amendment for clarity as referenced in ASHRAE 154				Brian Stemwedel will write CCP	
12		Section 202	Condensing unit	N	2024 verbiage change	N	N	A	A	Y			
13	1346.0202	Section 202	Decorative solid fuel burning appliance	Y	Remove definition, not needed.	N	N	The code does not reference these type of appliances. Chapter 9 has listings, none reference this definition.	Repeal	Y		Remove Minnesota amendment	
14		Section 202	Direct evaporative cooling	N	New definition in the 2021 kept in the 2024	N	N	A	A	Y			
15		Section 202	Draftstop	N	New definition in the 2024	N	N	Accept: Aligns with the 2024 IBC	A	Y			

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16	1346.0202	Section 202	Exhaust system	Y	Remove Minnesota Amendment. Causes issues with section 505.6	N	N	Accept: By keeping domestic kitchen exhaust hoods, ALL kitchen domestic hoods must be exhausted to the exterior.	A	Y			
17	1346.0202	Section 202	Fan assisted appliance	Y	Remove	N	N	Accept: The tables in 501.4 will be relocated to the IRC and revised accordingly. Chapter 9 lists all the appliances. This definition, in the IMC, is not needed. There is a definition in the IFGC	Repeal	Y		Remove Minnesota amendment	
18		Section 202	Flammability classifications	N	2021 IMC changed the definition and the 2024 removed the definition.	N	N	Accept: Moved to Refrigerant safety group classification definition.	A	Y			
19		Section 202	Grease duct	N	New definition in the 2024	N	N	Recommend we follow ASHRAE 154 definition for grease duct	R	Y		ASHRAE 154 has a definition that we will keep	
20		Section 202	Gypsum board	N	New definition in the 2024, copied from the IBC	N	N	A	A	Y			
21		Section 202	Gypsum wallboard	N	New definition in the 2024, copied from the IBC	N	N	A	A	Y			
22		Section 202	Heat pump	N	Changed definition in the 2024 for heat pump	N	N	Accept: Aligns with industry standards.				John Smith will write CCP	
23		Section 202	Indirect evaporative cooling	N	Added definition in the 2021 and carried to the 2024	N	N	Accept: Aligns with industry standards.	A	Y			
24		Section 202	Large-diameter ceiling fan	N	Added definition in the 2021 and carried to the 2024	N	N	A	A	Y			
25		Section 202	Listed	N	Changed definition in the 2024	N	N	IBC has almost the same definition with the only change being code official to building official, so no amendment is necessary					
26		Section 202	Lower flammable limit (Refrigerant)(LFL)	N	Changed the definition in the 2024	N	N	Accept: Clarification to the existing definition.	A	Y			
27		Section 202	Noncombustible material	N	Changed the definition in the 2024	N	N	A	A	Y			
28		Section 202	Peer review	N	Added definition in the 2024	N	N	Accept: Aligns with the 2024 IBC	A	Y			

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				Y or N						Y or N	Y or N		
29	1346.0202	Section 202	Power vent appliance	Y	Remove the Minnesota Amendment to the IMC	N	N	Accept: The tables in 501.4 will be relocated to the IRC and revised accordingly. This definition, in the IMC, is not needed. The IFGC has category definitions that address venting types.	Repeal	Y		Remove Minnesota amendment	
30	1346.0202	Section 202	Powered makeup air	Y	Remove	N	N	Accept: The tables in 501.4 will be relocated to the IRC and revised accordingly.	Repeal	Y		Remove Minnesota amendment	
31		Section 202	Press-connect joint	N	Changed the definition adding clarity in the 2021 and copied in the 2024	N	N	A	A	Y			
32		Section 202	Refrigerant	N	Changed the definition in the 2024 providing clarity	N	N	A	A	Y		Vote 10-0 in favor	
33		Section 202	Refrigerant designation	N	Added definition in the 2024	N	N	A	A	Y			
34		Section 202	Refrigerant safety group classification	N	Added definition in the 2021 and revised it in the 2024	N	N	A	A	Y			
35		Section 202	Refrigeration system	N	Changed from Refrigerating System and changed the verbiage in the 2024	N	N	A	A	Y			
36	1346.0202	Section 202	Sealed	Y	Remove	N	N	UL181 is designed for duct sealing. Are other sealing methods can be used for other materials.	Repeal	Y		Remove Minnesota amendment	
37		Section 202	Steam bath equipment	N	Added definition in the 2024	N	N	A	A	Y			
38	1346.0202	Section 202	Solid fuel appliance	Y	Remove?	N	N	Chapter 9 addresses listed appliances.					
39		Section 202	Toxicity classification (Refrigerant)	N	Changed the title from Toxicity classification and changed the verbiage in 2021 and removed the definition in 2024	N	N	The change aligns with industry standards.					
40		Section 202	Unvented alcohol fuel-burning decorative appliance	N	Added definition in the 2021 and remains in the 2024	N	N	Reject: Our Minnesota amendment 901.5 prohibits these appliances.					
41	1346.0301.7	301.7	Listed and labeled	Y	Model code language differs from amendment.	N	N	Keep amendment					
42		301.18	Seismic resistance	N	Changed in the 2021, copied in the 2024.	N	N	Not needed for Minnesota. Remains in the 2020 1346					
43		302.3	Cutting, notching and boring in wood framing	N	Changed the verbiage and removed 302.3.2 and 302.3.3 in 2024	N	N	A					
44		302.3.1	Engineered wood products	N	Changed location from 302.3.4 in 2024	N	N	A					

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45		302.5	Cutting and notching in cold-formed steel framing	N	Changed the verbiage and removes subsections 302.5.2 and 302.5.3 in 2024	N	N	A					
46	1346.0303.8	303.8.	Elevator shafts	Y	Deleted in 1346.0303.8.	N	N	Change to read mechanical systems shall be installed in an elevator shafts as allowed in MR1307					
47		304.11	Guards	N	Added language in to 2021 for roof hatches and remains in the 2024	N	N	Accept: Referenced in the 2024 IBC 1015.7 Roof access					
48		Table 305.4	Piping support spacing	N	Changed the table in the 2024 removing PB	N	N	A					
49		305.5	Protection against physical damage	N	Change verbiage in the 2024 changing the 1 1/4" to 1 1/2"	N	N	A					
50		305.5.1	Shield plates	N	Added a section addressing steel plates in the 2024	N	N	A					
51		306.1	Access and service space	N	Changed verbiage in the 2024	N	N	A					
52	1346.0306.5	306.5	Mechanical equipment and appliances on roofs and elevated structures	Y	2024 changed verbiage. Minnesota amended.	N	N	Keep model code language and add language to allow the same required for access to uninhabited spaces such as alternating tread and ships ladders. IBC 1011.14 and 1011.15.					
53	1346.0306.5.1	306.5.1	Sloped roofs	Y		N	N	Remove amendment. Keep model code language.					
54	1346.0306.5.2	306.5.2	Electrical requirements	Y		N	N	Remove amendment. Keep model code language.					
55	1346.0306.5.3		Permanent ladders	Y		N	N	AM: Add same requirements as discussed in IMC 306.5					
56		307.1.1	Identification	N	Added verbiage in the 2021, copied in the 2024	N	N	A					
57		307.2.1.1	Condensate discharge	N	Added a section addressing condensate discharge location	N	N	A					
58		307.2.2	Drain pipe materials and sizes	N	Changed verbiage in the 2021 and copied in the 2024. No large changes.	N	N	A					
59		307.2.3.3	Identification	N	Added verbiage in the 2021, copied in the 2024	N	N	A					

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60	1346.0307.3	307.3	Condensate pumps	Y	Minnesota removed the code section regarding the installation of condensate pumps.	N	N	Advise adding language prohibiting condensate pumps in areas prone to freezing, leaving the last sentence.					
61		308.4.2.5	Kitchen exhaust ducts	N		N	N	Advise amending this section to remove language referring to Section 506.3.11.1 as Minnesota does not adopt the model code language in Section 506 for commercial kitchen hood ventilation requirements					
62	1346.0309.2		Balancing	Y	The 2021 and copied in 2024 added Section 608 that is titled Balancing.	N	N	Advise we move the amendments MR1346.0309.2, MR1346.0309.2.1, 1346.0309.2.2 and MR1346.0309.2.3 to IMC 608 and revise.					
63	1346.0401.2	401.2	Ventilation required	Y	The 2021 changed verbiage that was copied in the 2024.	N	N	Since we are moving the residential mechanical provisions to the IRC, the section will need to be reviewed and revised.					
64	1346.0401.2.1		Ventilation in IRC	Y		N	N	Since we are moving the residential mechanical provisions to the IRC, the section will need to be reviewed and revised.					
65	1346.0401.2.2		Ventilation in Group R-2, R-3 and R-4 occupancies three stories and less in height	Y				Since we are moving the residential mechanical provisions to the IRC, the section will need to be reviewed and revised.					
66	1346.0401.2.3		Ventilation in Group R-2, R-3 and R-4 occupancies more than three stories in height	Y				Since we are moving the residential mechanical provisions to the IRC, the section will need to be reviewed and revised.					
67	1346.0401.4	401.4	Intake opening location	Y	2021 revised verbiage as well as 2024.	N	N	Review, suggest adopting model code language.					
68		403.2.1	Recirculation of air	N	2021 changed verbiage to add ANSI/ACCA 10 Manual SPS and remains in the 2024.	N	N	A					

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69	1346.0403.3	403.3	Outdoor air and local exhaust airflow rates	Y	Minnesota amendment references MR1346.0401.2.2.	N	N	Suggest adopting model code language since MR1346.0401.2.2 will be revised or deleted					
70		403.3.1	Other buildings intended to be occupied	N	2024 verbiage change.	N	N	A					
71		Table 403.3.1.1	Minimum Ventilation Rates	N	The 2024 added details to the table including animal facilities, outpatient healthcare facilities and other changes.	N	N	A					
72		403.3.1.3	System operation	N	Changes to verbiage in the 2021 kept in 2024 regarding occupied times	N	N	A					
73		403.3.1.5	Balancing	N	This section was removed in the 2021 and also in the 2024. Balancing has been moved to Section 608	N	N	A					
74	1346.0403.3.2	403.3.2	Group R2, R3 and R4 occupancies, three stories and less	Y	Minnesota removed the code requirement in the 2018 IMC. The 2015 Residential Energy Code is changing to remove ventilation from the code provisions. 2024 changed model code language.	N	N	The IMC will need to address these occupancies. Also will need to have the IRC mechanical provisions aligned.					
75	1346.0403.3.2	403.3.2.1	Outdoor air for dwelling units	Y	Minnesota removed the code requirement in the 2018 IMC. The 2015 Residential Energy Code is changing to remove ventilation from the code provisions. 2021 changed model code language, as did 2024.	N	N	The IMC will need to address these occupancies. Also will need to have the IRC mechanical provisions aligned.					
76	1346.0403.3.2	403.3.2.2	Outdoor air for other spaces	Y	Minnesota removed the code requirement in the 2018 IMC. The 2015 Residential Energy Code is changing to remove ventilation from the code provisions.	N	N	The IMC will need to address these occupancies. Also will need to have the IRC mechanical provisions aligned.					
77	1346.0403.3.2	403.3.3.3	Local Exhaust	Y	Minnesota removed the code requirement in the 2018 IMC. The 2015 Residential Energy Code is changing to remove ventilation from the code provisions.	N	N	The IMC will need to address these occupancies. Also will need to have the IRC mechanical provisions aligned.					
78		Table 403.3.2.3	Minimum required local exhaust rates for group R-2, R-3 and R-4 occupancies	Y	Table was amended out of the 2020 Minnesota Mechanical Code. Continuous airflow amounts in the table increased in the 2024 IMC.	N	N	Repeal Minnesota amendment, adopt as written.					

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79	1346.0403.3.2	403.3.2.4	System controls	Y	Minnesota removed the code requirement in the 2018 IMC. The 2015 Residential Energy Code is changing to remove ventilation from the code provisions.	N	N	The IMC will need to address these occupancies. Also will need to have the IRC mechanical provisions aligned.					
80	1346.0403.3.2	403.3.2.5	Ventilating equipment	Y	Minnesota removed the code requirement in the 2018 IMC. The 2015 Residential Energy Code is changing to remove ventilation from the code provisions.	N	N	The IMC will need to address these occupancies. Also will need to have the IRC mechanical provisions aligned.					
81	1346.0404.1	404.1	Enclosed parking garages	Y	Minnesota amended to add trigger amounts.	N	Y	Amended to add the .05 continuous as in model code language.					
82		407	Ambulatory care facilities and Group I-2 occupancies	N	Changes in the 2021 and in the 2024 adding NFPA 99	N	N	A					
83		501.2	Independent system required	N	Changed verbiage in the 2021, copied in the 2024.	N	N	A					
84	1346.0501.3	501.3	Exhaust discharge	Y	Minnesota amended language to add public nuisance, add a backdraft damper and remove 2 of the 3 exceptions.	N	N	AM: Remove exception 1. Backdraft damper are required in ASHRAE 90.1 Table 6.4.3.4.3. Remove remaining Minnesota Amendment.					
85		501.3.1	Location of exhaust outlets	N	Changes in the 2021 and the 2024	N	N	A					
86	1346.0501.4	501.4	Pressure equalization	Y	Minnesota amended this section.	N	N	The following Minnesota amended sections, 501.4.1, 501.4.2, 501.4.2.1, 501.4.2.2, 501.4.2.3, 501.4.2.4, 501.4.2.5, 501.4.2.6, 501.4.3, Table 501.4.1, Table 501.4.2, Table 501.4.3(1), Table 501.4.3(2) and Table 501.4.3(3) will be revisited when the IRC mechanical provisions are discussed.					
87		501.6	Common ducts	N	Added section in the 2024	N	N	A					
88		502.9.5	Flammable and combustible liquids	N	2021 added an exception addressing breweries	N	N	A					

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89		502.20.1	Operation	N	2021 added a section and the 2024 kept the change requiring exhaust system to remain operational when occupied	N	N	A					
90		504.2	Exhaust penetrations	N	2024 changed verbiage to include draftstops	N	N	A					
91		504.4.1	Termination location	N	2021 added another section, kept in the 2024	N	N	A					
92		504.6	Booster fans prohibited	N	2021 added a section, remained in the 2024 to prohibit booster fans for dryers. The following sections are renumbered. See section 504.5.	N	N	A					
93		504.8	Protection against physical damage	N	Change verbiage in the 2024 changing the 1 1/4" to 1 1/2"	N	N	A					
94		504.8.1	Shield plates	N	2024 added a subsection that was part of the original 504.8	N	N	A					
95		504.10.	Commercial clothes dryers	N	2024 added UL 2158A listing.	N	N	A					
96	1346.0505.2	505.2	Domestic cooking exhaust	Y	Minnesota added another exception for domestic kitchen exhaust hoods.	N	N	Remove amendment. Keep model code language.					
97		505.3	Exhaust ducts	N	2021 added language that was revised again in 2024	N	N	A					
98		505.7	Group I-1 occupancies	N	2024 added a section addressing I-1 occupancies. Building code section 904.15.1.1 references UL 300A.	N	N	Align the IMC with the Building Code regarding UL 300A requirements.					
99		505.8	Group I-2 occupancies	N	2024 added a section addressing I-1 occupancies. Building code section 904.15.1.1 references UL 300A.	N	N	Align the IMC with the Building Code regarding UL 300A requirements.					
100		506.2	Corrosion protection	N	2024 added exhaust equipment to the section	N	N	A					
101	1346.0506.3	506.3	Ducts serving Type I hoods	Y	Minnesota removed model code language 506.3 adding reference to NFPA 96 and ASHRAE 154.	N	N	Modify amendment as needed.					
102	1346.0506.4	506.4	Ducts serving Type II hoods	Y	Minnesota added a reference to ASHRAE 154 to this section.	N	N	Modify amendment as needed.					
103	1346.0506.4.1	506.4.1	Ducts	Y	Minnesota added a reference to MR1346.0504.1.1, Testing.	N	N	Modify amendment as needed providing guidance.					
104	1346.0506.4.1.1		Testing	Y		N	N	Modify amendment as needed providing guidance.					
105	1346.0506.5	506.5	Exhaust equipment	Y		N	N	Modify amendment to include IMC 506.5.2.					
106	1346.0507	507	Commercial Kitchen Hoods	Y		N	N	Keep amendment					
107	1346.0508.1	508.1	Makeup air	Y		N	N	Keep amendment					

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108	1346.0508.1.1	508.1.1	Makeup air temperature	Y		N	N	Visit amendment to follow the model code language regarding the 10 degrees. Would also address cooling of the air					
109	1346.0508.1.2		Makeup and ventilation air distribution	Y		N	N	Keep amendment and following sections in 508					
110	509		Fire suppression systems	N	2024 removed IMC 509. The section references the IBC and IFGC.	N	N	A					
111		509	Hazardous exhaust systems	N	2024 changed code section by removing 509	N	N	A					
112	1346.0510.1	509.1	Exception	Y	Minnesota added an amendment	N	N	Remove amendment. Keep model code language. TAG members to research this section.					
113	510.4	509.4	Independent system	N	2021 removed code section, 2024 followed	N	N	Accept. Review Minnesota amendment to 510.1.					
114	510.6.5	509.5.5	Makeup air	N	2021 changed language allowing makeup air by gravity as well as mechanically and renumbered in 2024	N	N	A					
115	511	510	Dust, stock and refuse conveying systems	N	2024 changed numbering sequence	N	N	A					
116	511.1	510.1	Dust, stock and refuse conveying systems	N	2021 added International Fire Code to the section, 2024 kept the change	N	N	A					
117	511.1.5	510.1.5	Explosion control	N	2021 changed the heading and verbiage inside the section, kept in the 2024	N	N	A					
118	1346.0512.1		Radon	Y	Minnesota added an amendment regarding radon.	N	N	Delete amendment. 1303 has the requirements					
119	514.2	513.2	Prohibited applications	N	2021 removed Type 2 from item 4, copied in the 2024	N	N	A					
120		601.2	Air movement in egress elements	N	2021 changed exception 4 to reference ASHRAE 170, copied in the 2024	N	N	A					
121		601.5	Return air openings	N	2024 changed item 2 adding clarification	N	N	A					
122		601.5	Return air openings	N	2024 changed item 7 removing closet and adding clarification	N	N	A					
123		601.5	Return air openings	N	2024 changed adding new items 8 and 9 for closet returns moving the pool to item 10	N	N	A					
124		601.5	Return air openings	N	2024 changed verbiage for swimming pools	N	N	A					
125		601.5	Return air openings	N	2024 changed verbiage for exception 1 and 2 for clarification	N	N	A					
126		601.5	Return air openings	N	2021 changed verbiage for exception 2, kept in the 2024	N	N	A					
127	1346.0602	602	Plenums	N	2021 changed verbiage, copied in the 2024. The 2024 revised the entire section	N	N	A					

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128	1346.0602.2.1.9		Piping in plenums	Y	Minnesota amendment	N	N	Remove amendment, keep model code language					
129		603.5.1	Gypsum ducts	N	2021 added verbiage, copied in the 2024	N	N	A					
130	1346.0603.8.4		Drainage and insulation	Y	Minnesota added a amendment.	N	N	A					
131	1346.0603.18.3		Adjustment of volume dampers	Y		N	N	Remove this amendment. Not needed as a code requirement. Or provide a definition of what a friction-type register box is.					
132	1346.0604.1	604.1	Insulation	Y	Minnesota amendment to be brought forward	N	N	Revisit amendment to address duct insulation per the energy code.					
133	1346.0604.3	604.3	Coverings and linings	Y	2021 and 2024 have changed verbiage to move closer to our amendment	N	N	Minnesota amendment to be removed as it references residential provisions.					
134		607.2	Installation	N	2021 changed verbiage, copied in the 2024	N	N	A					
135		607.2.3	Static dampers	N	2021 added a code section, remains in the 2024	N	N	A					
136		607.2.4	Mechanical, electrical and plumbing controls	N	2024 added a new code section	N	N	A					
137		607.2.4.1	Controls not permitted to be installed through dampers	N	2024 added a new code section	N	N	A					
138		607.3.1	Damper testing	N	2021 changed verbiage, remains in the 2024	N	N	A					
139		607.3.3.1	Fire damper activation	N	2021 changed verbiage and heading, remains in the 2024	N	N	A					
140		607.4	Access and identification	N	2021 changed section and added subparts to the section, remains in the 2024	N	N	A					
141		607.5.2	Fire barriers	N	2021 changed verbiage (flexible ducts), remains in the 2024	N	N	A, verify language in the IBC Tag group recommendations.					
142		607.5.5	Shaft enclosures	N	2021 changed verbiage in exception 1.1 and 2, remains in the 2024	N	N	A, verify language in the IBC Tag group recommendations.					
143		607.5.5.1	Continuous upward flow	N	Added a subsection to 607.5.5 in the 2021 and remains in the 2024	N	N	A, verify language in the IBC Tag group recommendations.					

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				Y or N						Y or N	Y or N		
144		607.5.5.2	Enclosure at the bottom	N	2021 relocated the from 607.5.5.1 and remains in the 2024	N	N	A, verify language in the IBC Tag group recommendations.					
145	1346.0607.6.1	607.6.1	Through penetrations	Y	2024 changed verbiage	N	N	A, verify language in the IBC Tag group recommendations.					
146		607.6.2.1.1	Dynamic systems	N	2021 added subpart, remains in the 2024.	N	N	A, verify language in the IBC Tag group recommendations.					
147		607.6.2.1.2	Static systems	N	2021 added subpart, remains in the 2024.	N	N	A, verify language in the IBC Tag group recommendations.					
148		607.6.3	Nonfire-resistance-rated floor assemblies	N	IBC has an amendment	N	N	A, verify language in the IBC Tag group recommendations.					
149		608	Balancing	N	2021 added a stand alone balancing section, remains in the 2024	N	N	Consider an amendment					
150	MR1346.0801.10	801.10.	Connection to fireplace	Y	Minnesota amended.	N	N	Recommend following model code language. Not Minnesota specific					
151		801.21	Blocked vent switch	N	2021 added a section, remains in the 2024	N	N	A					
152	MR1346.0901.5		Unvented heaters and appliances	Y	Keep Minnesota amendment	N	N	A					
153		905.1	Fireplace, stoves and heaters	N	2021 added verbiage, remains in the 2024	N	N	A					
154		907.1	Incinerators and crematories	N	2024 changed verbiage	N	N	A					
155		908.1	Cooling towers, evaporative condensers and fluid coolers	N	2021 changed verbiage, remains in the 2024	N	N	A					
156		912.1	Infrared radiant heaters	N	2024 changed verbiage	N	N	A					
157		912.2	Electric space heaters	N	2024 changed verbiage from infrared radiant heaters to electric heaters since this is not fuel gas	N	N	A					
158		916.1	Pool and spa heaters	N	2021 changed verbiage, remains in the 2024	N	N	A					
159		918.1	Forced-air warm-air furnaces	N	2021 changed verbiage, remains in the 2024	N	N	A					
160		918.2	Heat pumps	N	2021 changed verbiage, remains in the 2024	N	N	A					
161		920.4	Unit heaters	N	New section in the 2021, remains in the 2024	N	N	Need to verify how this applies to electric suspended-type unit heaters.					

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162		929.1	Unvented alcohol fuel-burning decorative appliance	N	New section in the 2021, remains in the 2024	N	N	Reject: Our Minnesota amendment 901.5 prohibits these appliances.					
163		930	Large diameter ceiling fans	N	2021 renumbered from 929, remains in the 2024	N	N	A					
164		931	Steam bath equipment	N	New section in the 2024	N	N	A					
165	MR1346.1001.1	1001.1	Boilers	Y	Minnesota amends this section, also revised in the 2024.	N	N	A					
166	MR1346.1001.2		Boilers	Y	Minnesota amendment,	N	N	Visit amendment to follow direction from Boiler and HPP divisions					
167	MR1346.1001.3		Pressure vessels	Y	Minnesota amendment	N	N	Need revisions to follow the State Boiler and HPP individuals, also revisit scoping references, need CCP					
168		1002.4	Water heater pan required	N	2024 added a section	N	N	Add amendment to address pan drainage as required in the Minnesota State Plumbing Code					
169	MR1346.1004.1	1004.1	Standards	Y	Minnesota amends this section, also revised in the 2021,	N	N	needs revisiting					
170	MR1346.1006.4	1006.4	Approval of safety and safety relief valves	Y	Minnesota amendment	N	N	Revert to model code language					
171	MR1346.1006.6	1006.6	Safety and relief discharge	Y	Minnesota amendment. Also 2024 changed verbiage	N	N	Revert to model code language					
172	MR1346.1006.9	1006.9	Boiler shutdown switch	Y	Minnesota amendment	N	N	Visit amendment to follow direction from Boiler and HPP divisions					
173	MR1346.1007.1	1007.1	Boiler low water cutoff	Y	Minnesota amendment	N	N	Revert to model code language					
174	MR1346.1011.1	1011.1	Tests	Y	Minnesota amendment	N	N	Revert to model code language					
175	MR1346.1101.1	1101.1	Refrigeration	Y	Minnesota amends, 2021 changed verbiage, as well as 2024 changed verbiage.	N	N	Review, suggest adopting model code language					
176		1101.1.1	Refrigerants other than ammonia	N	2021 added section, 2024 revised verbiage from the 2021	N	N	A					
177		1101.1.2	Ammonia refrigerant	N	2021 added section, 2024 revised verbiage from the 2021	N	N	Add amendment to follow direction from HPP division					
178		1101.2	Factory-built equipment and appliances	N	2021 added verbiage, remains in the 2024	N	N	A					

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				Y or N		N=None, L=Low M=Med, H=High				Y or N	Y or N		
179		Table 1101.2	Factory-built equipment and appliances	N	Table changed in the 2021, remains in the 2024	N	N	A					
180		1101.2.1	Group a2L, A2, A3 and B1 high-probability equipment	N	2024 added a section	N	N	A					
181		1101.6	Refrigeration general	N	2021 removed this section, still removed in 2024	N	N	A					
182		1101.6	Maintenance	N	2021 renumbered from 1101.7. 2024 changed verbiage	N	N	A					
183		1101.7	Change in refrigerant type	N	2024 changed heading and verbiage	N	N	A					
184		1102.1	System requirements	N	2024 changed verbiage	N	N	A					
185		1102.2.1	Mixing	N	2024 changed verbiage	N	N	A					
186		Table 1103.1	Refrigerant classification, amount and OEL	N	2021 changed parts of the table and footnotes as well as 2024	N	N	A					
187		Section 1104	Refrigeration System Application Requirements	N	2024 changed the title	N	N	A					
188		1104.2	Machinery room	N	2024 changed verbiage	N	N	A					
189		1104.2.2	Industrial occupancies and refrigerated rooms	N	2021 changed verbiage and 2024 also changed verbiage	N	N	A					
190		1104.3.1	Air conditioning for human comfort	N	2024 changed verbiage and layout	N	N	A					
191		1104.3.2	Group A2, A3, B2 and B3 refrigerants	N	2024 changed heading and verbiage	N	N	A					
192		1104.3.3	All occupancies	N	2021 changed verbiage, remains in the 2024	N	N	A					
193		1104.3.4	Protection from refrigerant decomposition	N	2021 changed verbiage in exception 1, remains in the 2024	N	N	A					
194		1105.6.3	Ventilation rate	N	2021 changed verbiage, remains in the 2024	N	N	A					
195		1105.8	Ammonia discharge	N	2021 removed the section, copied in the 2024	N	N	A					
196		1105.9	Emergency pressure control system	N	2021 renumbered to 1109.8 and changed verbiage, remains in the 2024	N	N	A					
197		1105.9	Means of egress	N	2021 added a section, copied in the 2024	N	N	A					
198		1106.3	Ammonia room ventilation	N	2021 removed section, still removed in the 2024. renumbered following sections	N	N	A					
199		1106.4	Flammable refrigerants	N	2021 changed verbiage, renumbered section to 1106.3. 2024 renamed section to Class 2 and 3 refrigerants and verbage	N	N	A					
200		1106.4	Group A2IL and B2L refrigerants	N	2021 changed verbiage. 2024 removed changes to the 2021 and added a new section	N	N	A					

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				Y or N						Y or N	Y or N		
201		1106.4.1	Elevated temperatures	N	2021 changed verbiage. 2024 removed changes to the 2021 and added a new section	N	N	A					
202		1106.4.2	Refrigerant detector	N	2024 added a section	N	N	A					
203		Table 1106.5.2	Minimum exhaust rates	N	2021 revised table, 2024 removed table and replaced with Table 1106.4.2 Group A2I and B2L	N	N	A					
204		1106.4.3	Mechanical ventilation	N	2024 added a section and removed 1106.5.3	N	N	A					
205		1107	Piping materials	N	2021 changed the entire section, 2024 made revisions to the entire section.	N	N	A					
206		1108	Joints and connections	N	2021 changed the entire section, 2024 made revisions to the entire section.	N	N	A					
207		1109	Refrigerant pipe installation	N	2021 changed the entire section, 2024 made revisions to the entire section.	N	N	A					
208		1110	Refrigerant piping system test	N	2021 changed the entire section, 2024 made revisions to the entire section.	N	N	A					
209	1109	1111	Periodic testing	N	2021 renumbered section to 1111, remains in the 2024	N	N	A					
210		1201.1	Hydronic piping	N	2024 changed verbiage	N	N	A					
211		Table 1202.4	Hydronic pipe	N	2021 changed table as did 2024	N	N	A					
212		Table 1202.5	Hydronic pipe fittings	N	2021 changed table as did 2024	N	N	A					
213		1203.3.4	Solvent-cemented joints	N	2021 changed verbiage as did 2024	N	N	A					
214		1203.7	CPVC plastic pipe	N	2021 changed verbiage remains in the 2024	N	N	A					
215		1203.8	CPVC/AL/CPVC plastic pipe	N	2021 added section, renumbered rest of section remains in the 2024	N	N	A					
216		1203.8	Polybutylene plastic pipe and tubing	N	2024 removed section, renumbered rest of section	N	N	A					
217		1203.9.3	Push-fit fittings	N	2021 renamed section and changed verbiage, remains in 2024	N	N	A					
218		1203.13	Stainless steel pipe	N	2024 added section, renumbered rest of section	N	N	A					
219		1203.14	Stainless steel tubing	N	2024 added section, renumbered rest of section	N	N	A					
220		1203.16.3	Push-fit fittings	N	2021 changed verbiage, copied in the 2024	N	N	A					
221		1205.1	Where required	N	2024 changed verbiage	N	N	A					
222	MR1346.1205.1.6	1205.1.6	Expansion tanks	Y	Minnesota Amendment	N	N	Revert to model code language					
223	MR1346.1206.1.1		Prohibited tee applications	Y	Minnesota Amendment	N	N	Revert to model code language					
224	MR1346.1206.12		Draining and venting	Y	Minnesota Amendment almost copies 1206.2	N	N	Revert to model code language					
225		1209.1	Materials	N	2024 changed verbiage	N	N	A					
226		1209.3.3	Polybutylene joints	N	2024 removed section and renumbered rest of section 1209.3	N	N	A					
227		1209.5	Insulation and thermal break required	N	2021 changed heading and verbiage, remains in the 2024	N	N	A					

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228		1209.5.2	Insulation material marking	N	2021 changed heading and verbiage, remains in the 2024	N	N	A					
229		1209.6	Radiant tubing placement	N	2024 added a new section	N	N	A					
230		1209.6.1	Radiant tubing circuit length	N	2024 added a new section	N	N	A					
231		Table 1209.6.1	Maximum circuit length of radiant tubing...	N	2024 added a new table	N	N	A					
232		1209.6.2	Radiant tubing circuit tags	N	2024 added a new section	N	N	A					
233		1209.6.3	Radiant tubing drawings	N	2024 added a new section	N	N	A, consider an amendment to align with balancing requirements in 608					
234		1209.7	Snow-and ice-melt tubing placement	N	2024 added a new section	N	N	A					
235		1209.7.1	Snow-and ice-melt tubing circuit length	N	2024 added a new section	N	N	A					
236		Table 1209.7.1	Maximum circuit length of snow and ice-melt tubing...	N	2024 added a new table	N	N	A					
237		1209.7.2	Snow-and ice-melt tubing drawings	N	2024 added a new section	N	N	A, consider an amendment to align with balancing requirements in 608					
238		Table 1210.4	Ground-source loop pipe	N	2021 revised table adding standards as did 2024	N	N	A					
239		Table 1210.5	Ground-source loop pipe fittings	N	2021 revised table adding standards as did 2024	N	N	A					
240		1210.6	Joints	N	2024 changed verbiage	N	N	A					
241		1210.6.2	Preparation of pipe ends	N	2021 changed verbiage, remains in the 2024	N	N	A					
242		1210.8	Installation	N	2021 added standard, remains in the 2024	N	N	A					
243		1301.4	Fuel tanks, piping, fitting and valves	N	2021 changed heading and verbiage, remains in the 2024	N	N	A					
244		Table 1302.3	Fuel oil piping and fittings	N	2021 changed heading and verbiage, remains in the 2024	N	N	A					
245		1302.8	Flexible connectors and hoses	N	2021 removed standard, remains in the 2024	N	N	A					
246		1302.9	Piping systems	N	2021 added a section, remains in the 2024	N	N	A					
247		1303.3	Joint preparation and installation	N	2021 added press-joint connect, remains in the 2024	N	N	A					
248		1303.3.2	Mechanical joints	N	2021 changed verbiage, remains in the 2024	N	N	A					

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				Y or N		N=None, L=Low M=Med, H=High	Y or N			Y or N			
249		1303.3.5	Press-connect joints	N	2021 added press-joint connect, remains in the 2024	N	N	A					
250		1303.4	Copper or copper-alloy tubing	N	2021 changed verbiage, remains in the 2024	N	N	A					
251		1303.7	Steel and stainless steel pipe	N	2021 added stainless steel and verbiage remains in the 2024	N	N	A					
252		1303.8	Steel and stainless steel tubing	N	2021 added stainless steel and verbiage remains in the 2024	N	N	A					
253		1402.8.1.2	Roof-mounted solar thermal collectors and systems	N	2021 changed verbiage, remains in the 2024	N	N	A					
254		1404	Labeling	N	2021 changed verbiage, remains in the 2024	N	N	A					
255		Chapter 15	Referenced Standards	Y	2021 and 2024 changed the section. Minnesota amends as well.	N	N	Need to change the amendment to reference the latest standards. NFPA 96 ASHRAE 154 and others					
256	1346.0160.		Installation and testing of oil or liquid fuel-fired equipment	Y		N	N	Delete amended chapter. The model code language refers us to standards that lay out requirements. Amendment is not unique to Minnesota's climate, to encourage more uniform enforcement, or to remedy an existing problem					
257	Index							Need to verify the index is up to date with the changes					