

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

Model Code: 2024 IMC

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					
5	1346.0201.4	201.4	Terms not defined	Y	Chapter 1300 is looking to change the definition			Amend to meet 1300 and IBC definitions				From IBC meeting notes: The TAG discussed amending this to align with the code change proposal to MR 1300.0070 Subp. 1 Definitions. The proposed change adds a first default for definitions to the other rules chapters in the State Building Code before simply going to the dictionary. The TAG consensus was to amend this section to match MR 1300.	
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				Meet IBC definition	
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	A				
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	Repeal amendment and removed the definition			Brian Stemwedel submitted CCP	
11a		Section 202	Commercial cooking recirculation sytem	N		N	N	Removed definition	A			Brian Stemwedel submitted CCP	
11b		Section 202	Commercial kitchen hoods (including types of hoods)	N		N	N	Removed definition	A			Brian Stemwedel submitted CCP	
11c		Section 202	Compensating hoods	N		N	N	Removed definition	A			Brian Stemwedel submitted 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			
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			

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				Y or N		N=None, L=Low M=Med, H=High			Y or N	Y or N		
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.	A			John Smith submitted 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	A			
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		
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		

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				Y or N		N=None, L=Low M=Med, H=High	Y or N		Y or N			
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.	Repeal			
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.	A			
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.	R			
41	1346.0301.7	301.7	Listed and labeled	Y	Model code language differs from amendment.	N	N	Keep amendment	A			
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	A			
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	A			
44		302.3.1	Engineered wood products	N	Changed location from 302.3.4 in 2024	N	N	A	A			
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	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 MR1305	Repealed Minnesota amendment and accepted CCP			Brian submitted CCP
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	A			
48		Table 305.4	Piping support spacing	N	Changed the table in the 2024 removing PB	N	N	A	A			
49		305.5	Protection against physical damage	N	Change verbiage in the 2024 changing the 1 1/2" to 1 1/4"	N	N	A	A			Decided not to change
50		305.5.1	Shield plates	N	Added a section addressing steel plates in the 2024	N	N	A	A			
51		306.1	Access and service space	N	Changed verbiage in the 2024	N	N	A	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.				CCP needed, remove amended language for Item 6 Britt and I will propose CCP to align IBC with IMC. Keep aligned with IFGC. IBC changed language will need CCP to align 10-23-24 note to copy to IFGC
53	1346.0306.5.1	306.5.1	Sloped roofs	Y		N	N	Remove amendment. Keep model code language.				CCP needed, remove amended language for Item 6 Britt and I will propose CCP to align IBC with IMC. Keep aligned with IFGC. IBC changed language will need CCP to align 10-23-24 note to copy to IFGC
54	1346.0306.5.2	306.5.2	Electrical requirements	Y		N	N	Remove amendment. Keep model code language.	AM			CCP needed, remove amended language for Item 6 Britt and I will propose CCP to align IBC with IMC. Keep aligned with IFGC. IBC changed language will need CCP to align 10-23-24 note to copy to IFGC
55	1346.0306.5.3		Permanent ladders	Y		N	N	AM: Add same requirements as discussed in IMC 306.5				CCP needed, remove amended language for Item 6 Britt and I will propose CCP to align IBC with IMC. Keep aligned with IFGC. IBC changed language will need CCP to align 10-23-24 note to copy to IFGC

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				Y or N		N=None, L=Low M=Med, H=High	Y or N			Y or N			
56		307.1.1	Identification	N	Added verbiage in the 2021, copied in the 2024	N	N	A	A				
57		307.2.1.1	Condensate discharge	N	Added a section addressing condensate discharge location	N	N	A	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	A				
59		307.2.3.3	Identification	N	Added verbiage in the 2021, copied in the 2024	N	N	A	A				
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.	A			Staff will write CCP align with IFGC. 10/23/24 IFGC did not change. Staff does not need CCP. Retain deleted language	
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	Delete section			Delete	
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.	Repeal			CCP approved 7/22/24	
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.	A				
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.	Repeal				
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.	Repeal				
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.	Repeal				
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.	A				
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	A				
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	A				

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70		403.3.1	Other buildings intended to be occupied	N	2024 verbiage change.	N	N	A	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	A				
72		403.3.1.3	System operation	N	Changes to verbiage in the 2021 kept in 2024 regarding occupied times	N	N	A	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	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.	AM			CCP from Mike Moore 6/10/24	
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.	AM			CCP from Mike Moore 6/10/24	
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.	AM			CCP from Mike Moore 6/10/24	
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.	AM			CCP from Mike Moore 6/10/24	
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.	AM			CCP from Mike Moore 6/10/24	
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.	AM			CCP from Mike Moore 6/10/24	
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.	AM			CCP from Mike Moore 6/10/24	
81	1346.0404.1	404.1	Enclosed parking garages	Y	Minnesota amended to add trigger amounts.	N	N	Amended to add the .05 continuous as in model code language.	Keep amendment				
82	1346.0404.3		Minimum exhaust	Y	Minnesota amendment	N	N	Amendment not needed	Repeal			Amendment not needed as the amounts are adressed in Table 403.3.1.1	

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83	1346.0404.4		Prohibition of heated commercial parking garages	Y	Minnesota amendment	N	N	Renumber	Renumber				
84		407	Ambulatory care facilities and Group I-2 occupancies	N	Changes in the 2021 and in the 2024 adding NFPA 99	N	N	A	A				
85		501.2	Independent system required	N	Changed verbiage in the 2021, copied in the 2024.	N	N	A	A			Lewis Johnson will revisit with CCP. Consensus was to not approve CCP	
86	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.	Repeal and replace with CCP			John Smith wrote CCP. Consensus was to approve CCP 5-20-24	
87		501.3.1	Location of exhaust outlets	N	Changes in the 2021 and the 2024	N	N	A	A				
88	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.	Move to IRC mechanical and amend as necessary				
89		501.6	Common ducts	N	Added section in the 2024	N	N	A	A				
90		502.9.5	Flammable and combustible liquids	N	2021 added an exception addressing breweries	N	N	A	A				
91		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	A				
92		504.2	Exhaust penetrations	N	2024 changed verbiage to include draftstops	N	N	A	A				
93		504.4.1	Termination location	N	2021 added another section, kept in the 2024	N	N	A	A				
94		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	A				
95		504.8	Protection against physical damage	N	Change verbiage in the 2024 changing the 1 1/4" to 1 1/2"	N	N	A	A				
96		504.8.1	Shield plates	N	2024 added a subsection that was part of the original 504.8	N	N	A	A				
97		504.10.	Commercial clothes dryers	N	2024 added UL 2158A listing.	N	N	A	A				
98	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.	A				
99		505.3	Exhaust ducts	N	2021 added language that was revised again in 2024	N	N	A	A			Table for further review. Staff concluded an amendment is not necessary.	
100		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.				Table for further review. 7-1-24 need to schedule with 1305	
101		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.				Table for further review.7-1-24 need to schedule with 1305	

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102		506.2	Corrosion protection	N	2024 added exhaust equipment to the section	N	N	A	A				
103	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	Keep amendment					
104	1346.0506.4	506.4	Ducts serving Type II hoods	Y	Minnesota added a reference to ASHRAE 154 to this section.	N	N	Keep amendment					
105	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.	AM			CCP approved 7/22/24	
106	1346.0506.4.1.1		Testing	Y		N	N	Modify amendment as needed providing guidance.	AM			CCP approved 7/22/24	
107	1346.0506.5	506.5	Exhaust equipment	Y		N	N	Modify amendment to include IMC 506.5.2.				Staff will write CCP to include 506.5.2, pollution-control units, into code	
108	1346.0507	507	Commercial Kitchen Hoods	Y		N	N	Keep amendment	Repeal and amend			2 CCP, John Smith CCP was approved in consensus and Staff CCP was approved unanimously 7/22/24	
109	1346.0508.1	508.1	Makeup air	Y		N	N	Keep amendment	AM			CCP approved 9/9/24	
110	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	AM			CCP approved 9/9/24	
111	1346.0508.1.2		Makeup and ventilation air distribution	Y		N	N	Keep amendment and following sections in 508	Repeal				
112	509		Fire suppression systems	N	2024 removed IMC 509. The section references the IBC and IFGC.	N	N	A	A				
113		509	Hazardous exhaust systems	N	2024 changed code section by removing 509	N	N	A	A				
114	1346.0510.1	509.1	Exception	Y	Minnesota added an exception regarding NFPA 45	N	N	A	Keep amendment, renumber to 509.1 as the model code changed				
115	510.4	509.4	Independent system	N	2021 removed code section, 2024 followed	N	N	A	A				
116	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				Staff will provide CCP	
117	511	510	Dust, stock and refuse conveying systems	N	2024 changed numbering sequence	N	N	A	A				
118	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	A				
119	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	A				
120	1346.0512.1		Radon	Y	Minnesota added an amendment regarding radon.	N	N	Delete amendment. 1303 has the requirements	Repeal A			We need to keep as plastic pipe is allowed along with other requirements not specified in this section. Add to IRC mechanical provisions.	
121	514.2	513.2	Prohibited applications	N	2021 removed Type 2 from item 4, copied in the 2024	N	N	A	A				
122		601.2	Air movement in egress elements	N	2021 changed exception 4 to reference ASHRAE 170, copied in the 2024	N	N	A	A				
123		601.5	Return air openings	N	2024 changed item 2 adding clarification	N	N	A	A				
124		601.5	Return air openings	N	2024 changed item 7 removing closet and adding clarification	N	N	A	A				
125		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	A				
126		601.5	Return air openings	N	2024 changed verbiage for swimming pools	N	N	A	A				

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

Model Code: 2024 IMC

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		N=None, L=Low M=Med, H=High			Y or N	Y or N			
127		601.5	Return air openings	N	2024 changed verbiage for exception 1 and 2 for clarification	N	N	A	A				
128		601.5	Return air openings	N	2021 changed verbiage for exception 2, kept in the 2024	N	N	A	A				
129		602	Plenums	N	2021 changed verbiage, copied in the 2024. The 2024 revised the entire section	N	N	A	A				
130	1346.0602.2.1.9		Piping in plenums	Y	Minnesota amendment	N	N	Remove amendment, keep model code language	Repeal				
131		603.5.1	Gypsum ducts	N	2021 added verbiage, copied in the 2024	N	N	A	A				
132	1346.0603.8.4		Drainage and insulation	Y	Minnesota added a amendment.	N	N	A	AM				
133	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.	Repeal				
134	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.	Repeal				
135	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.	Repeal				
136		607.2	Installation	N	2021 changed verbiage, copied in the 2024	N	N	A	Table				
137		607.2.3	Static dampers	N	2021 added a code section, remains in the 2024	N	N	A	Table				
138		607.2.4	Mechanical, electrical and plumbing controls	N	2024 added a new code section	N	N	A	Table				
139		607.2.4.1	Controls not permitted to be installed through dampers	N	2024 added a new code section	N	N	A	Table				
140		607.3.1	Damper testing	N	2021 changed verbiage, remains in the 2024	N	N	A	Table				
141		607.3.3.1	Fire damper activation	N	2021 changed verbiage and heading, remains in the 2024	N	N	A	Table				
142		607.4	Access and identification	N	2021 changed section and added subparts to the section, remains in the 2024	N	N	A	Table				
143		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.	Table				
144		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.	Table				
145		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.	Table				
146		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.	Table				
147	1346.0607.6.1	607.6.1	Through penetrations	Y	2024 changed verbiage	N	N	A, verify language in the IBC Tag group recommendations.	Table				
148		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.	Table				

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

Model Code: 2024 IMC

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		N=None, L=Low M=Med, H=High			Y or N	Y or N			
149		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.	Table				
150		607.6.3	Nonfire-resistance-rated floor assemblies	N	IBC has an amendment	N	N	A, verify language in the IBC Tag group recommendations.	Table				
151		608	Balancing	N	2021 added a stand alone balancing section, remains in the 2024	N	N	Consider an amendment	AM			CCP 7/22/24	
152	MR1346.0801.10	801.10.	Connection to fireplace	Y	Minnesota amended.	N	N	Recommend following model code language. Not Minnesota specific	Repeal				
153		801.21	Blocked vent switch	N	2021 added a section, remains in the 2024	N	N	A	A				
154	MR1346.0901.5		Unvented heaters and appliances	Y	Keep Minnesota amendment	N	N	A	A				
155		905.1	Fireplace, stoves and heaters	N	2021 added verbiage, remains in the 2024	N	N	A	Table			Brian will review	
156		907.1	Incinerators and crematories	N	2024 changed verbiage	N	N	A	A				
157		908.1	Cooling towers, evaporative condensers and fluid coolers	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
158		912.1	Infrared radiant heaters	N	2024 changed verbiage	N	N	A	A				
159		912.2	support	N	2024 changed verbiage from infrared radiant heaters to electric heaters since this is not fuel gas	N	N	A	A				
160		916.1	Pool and spa heaters	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
161		918.1	Forced-air warm-air furnaces	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
162		918.2	Heat pumps	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
163		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.	A				
164		929.1	Unvented alcohol fuel-burning decorative appliance	N	New section in the 2021, remains in the 2024	N	N	A	A				
165		930	Large diameter ceiling fans	N	2021 renumbered from 929, remains in the 2024	N	N	A	Table			Brian will write CCP adding NFPA 13, add NFPA 13 to reference standard	
166		931	Steam bath equipment	N	New section in the 2024	N	N	A	A				
167	MR1346.1001.1	1001.1	Boilers	Y	Minnesota amends this section, also revised in the 2024.	N	N	A	Table			Staff will write CCP	
168	MR1346.1001.2		Boilers	Y	Minnesota amendment,	N	N	Visit amendment to follow direction from Boiler and HPP divisions	Table			Staff will write CCP	
169	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	Table			Staff will write CCP	
170		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	Table			Kevin will write CCP	
171	MR1346.1004.1	1004.1	Standards	Y	Minnesota amends this section, also revised in the 2021,	N	N	A	Repeal				

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

Model Code: 2024 IMC

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		N=None, L=Low M=Med, H=High	Y or N		Y or N				
172	MR1346.1006.4	1006.4	Approval of safety and safety relief valves	Y	Minnesota amendment	N	N	Revert to model code language	Repeal				
173	MR1346.1006.6	1006.6	Safety and relief discharge	Y	Minnesota amendment. Also 2024 changed verbiage	N	N	Revert to model code language	Repeal				
174	MR1346.1006.9	1006.9	Boiler shutdown switch	Y	Minnesota amendment	N	N	Visit amendment to follow direction from Boiler and HPP divisions	Keep amendment				
175	MR1346.1007.1	1007.1	Boiler low water cutoff	Y	Minnesota amendment	N	N	Revert to model code language	Repeal				
176	MR1346.1011.1	1011.1	Tests	Y	Minnesota amendment	N	N	Revert to model code language	Repeal				
177	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	Table			Staff will write CCP remove amendment and add statute 326b.106	
178		1101.1.1	Refrigerants other than ammonia	N	2021 added section, 2024 revised verbiage from the 2021	N	N	A	Table			CCP by Brian. Adding ASHRAE 15.2	
179		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	Table			John will write CCP	
180		1101.2	Factory-built equipment and appliances	N	2021 added verbiage, remains in the 2024	N	N	A	A				
181		Table 1101.2	Factory-built equipment and appliances	N	Table changed in the 2021, remains in the 2024	N	N	A	A				
182		1101.2.1	Group A2L, A2, A3 and B1 high-probability equipment	N	2024 added a section	N	N	A	A				
183		1101.6	Refrigeration general	N	2021 removed this section, still removed in 2024	N	N	A	A				
184		1101.6	Maintenance	N	2021 renumbered from 1101.7. 2024 changed verbiage	N	N	A	A				
185		1101.7	Change in refrigerant type	N	2024 changed heading and verbiage	N	N	A	A				
186		1102.1	System requirements	N	2024 changed verbiage	N	N	A	A				
187		1102.2.1	Mixing	N	2024 changed verbiage	N	N	A	A				
188		Table 1103.1	Refrigerant classification, amount and OEL	N	2021 changed parts of the table and footnotes as well as 2024	N	N	A	A				
189		Section 1104	Refrigeration System Application Requirements	N	2024 changed the title	N	N	A	A				
190		1104.2	Machinery room	N	2024 changed verbiage	N	N	A	A				
191		1104.2.2	Industrial occupancies and refrigerated rooms	N	2021 changed verbiage and 2024 also changed verbiage	N	N	A	A				
192		1104.3.1	Air conditioning for human comfort	N	2024 changed verbiage and layout	N	N	A	A				
193		1104.3.2	Group A2, A3, B2 and B3 refrigerants	N	2024 changed heading and verbiage	N	N	A	A				
194		1104.3.3	All occupancies	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
195		1104.3.4	Protection from refrigerant decomposition	N	2021 changed verbiage in exception 1, remains in the 2024	N	N	A	A				
196		1105.6.3	Ventilation rate	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
197		1105.8	Ammonia discharge	N	2021 removed the section, copied in the 2024	N	N	A	A				
198		1105.9	Emergency pressure control system	N	2021 renumbered to 1109.8 and changed verbiage, remains in the 2024	N	N	A	A				
199		1105.9	Means of egress	N	2021 added a section, copied in the 2024	N	N	A	Table			Staff will research with IBC	
200		1106.3	Ammonia room ventilation	N	2021 removed section, still removed in the 2024. renumbered following sections	N	N	A	A				

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

Model Code: 2024 IMC

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		N=None, L=Low M=Med, H=High	Y or N			Y or N			
201		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	A				
202		1106.4	Group A2L and B2L refrigerants	N	2021 changed verbiage. 2024 removed changes to the 2021 and added a new section	N	N	A	A				
203		1106.4.1	Elevated temperatures	N	2021 changed verbiage. 2024 removed changes to the 2021 and added a new section	N	N	A	A				
204		1106.4.2	Refrigerant detector	N	2024 added a section	N	N	A	A				
205		Table 1106.5.2	Minimum exhaust rates	N	2021 revised table, 2024 removed table and replaced with Table 1106.4.2 Group A2L and	N	N	A	A				
206		1106.4.3	Mechanical ventilation	N	2024 added a section and removed 1106.5.3	N	N	A	A				
207		1107	Piping materials	N	2021 changed the entire section, 2024 made revisions to the entire section.	N	N	A	A				
208		1108	Joints and connections	N	2021 changed the entire section, 2024 made revisions to the entire section.	N	N	A	A				
209		1109	Refrigerant pipe installation	N	2021 changed the entire section, 2024 made revisions to the entire section.	N	N	A	A				
210		1110	Refrigerant piping system test	N	2021 changed the entire section, 2024 made revisions to the entire section.	N	N	A	A				
211	1109	1111	Periodic testing	N	2021 renumbered section to 1111, remains in the 2024	N	N	A	A				
212		1201.1	Hydronic piping	N	2024 changed verbiage	N	N	A	A				
213		Table 1202.4	Hydronic pipe	N	2021 changed table as did 2024	N	N	A	A				
214		Table 1202.5	Hydronic pipe fittings	N	2021 changed table as did 2024	N	N	A	A				
215		1203.3.4	Solvent-cemented joints	N	2021 changed verbiage as did 2024	N	N	A	A				
216		1203.7	CPVC plastic pipe	N	2021 changed verbiage remains in the 2024	N	N	A	A				
217		1203.8	CPVC/AL/CPVC plastic pipe	N	2021 added section, renumbered rest of section remains in the 2024	N	N	A	A				
218		1203.8	Polybutylene plastic pipe and tubing	N	2024 removed section, renumbered rest of section	N	N	A	A				
219		1203.9.3	Push-fit fittings	N	2021 renamed section and changed verbiage, reamins in 2024	N	N	A	A				
220		1203.13	Stainless steel pipe	N	2024 added section, renumbered rest of section	N	N	A	A				
221		1203.14	Stainless steel tubing	N	2024 added section, renumbered rest of sectio	N	N	A	A				
222		1203.16.3	Push-fit fittings	N	2021 changed verbiage, copied in the 2024	N	N	A	A				
223		1205.1	Where required	N	2024 changed verbiage	N	N	A	A				
224	MR1346.1205.1.6	1205.1.6	Expansion tanks	Y	Minnesota Amendment	N	N	Revert to model code language	Repeal				
225	MR1346.1206.1.1		Prohibited tee applications	Y	Minnesota Amendment	N	N	Revert to model code language	Repeal				
226	MR1346.1206.12		Draining and venting	Y	Minnesota Amendment almost copies 1206.2	N	N	Revert to model code language	Repeal				
227		1209.1	Materials	N	2024 changed verbiage	N	N	A	A				
228		1209.3.3	Polybutylene joints	N	2024 removed section and renumbered rest of section 1209.3	N	N	A	A				
229		1209.5	Insulation and thermal break required	N	2021 changed heading and verbiage, remains in the 2024	N	N	A	A				
230		1209.5.2	Insulation material marking	N	2021 changed heading and verbiage, remains in the 2024	N	N	A	A				
231		1209.6	Radiant tubing placement	N	2024 added a new section	N	N	A	A				
232		1209.6.1	Radiant tubing circuit length	N	2024 added a new section	N	N	A	A				

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

Model Code: 2024 IMC

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		N=None, L=Low M=Med, H=High			Y or N	Y or N			
233		Table 1209.6.1	Maximum circuit length of radiant tubing...	N	2024 added a new table	N	N	A	A				
234		1209.6.2	Radiant tubing circuit tags	N	2024 added a new section	N	N	A	A				
235		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	A				
236		1209.7	Snow-and ice-melt tubing placement	N	2024 added a new section	N	N	A	A				
237		1209.7.1	Snow-and ice-melt tubing circuit length	N	2024 added a new section	N	N	A	A				
238		Table 1209.7.1	Maximum circuit length of snow and ice-ment tubing...	N	2024 added a new table	N	N	A	A				
239		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	A				
240		Table 1210.4	Ground-source loop pipe	N	2021 revised table adding standards as did 2024	N	N	A	Table				
241		Table 1210.5	Ground-source loop pipe fittings	N	2021 revised table adding standards as did 2024	N	N	A	Table				
242		1210.6	Joints	N	2024 changed verbiage	N	N	A	Table				
243		1210.6.2	Preparation of pipe ends	N	2021 changed verbiage, remains in the 2024	N	N	A	Table				
244		1210.8	Installation	N	2021 added standard, remains in the 2024	N	N	A	Table				
245		1211	Hydronic balancing		New section regarding hydronic balancing	N	N		A			CCP from John Smith approved 7/22/24	
245		1301.4	Fuel tanks, piping, fitting and valves	N	2021 changed heading and verbiage, remains in the 2024	N	N	A	A				
246		Table 1302.3	Fuel oil piping and fittings	N	2021 changed heading and verbiage, remains in the 2024	N	N	A	A				
247		1302.8	Flexible connectors and hoses	N	2021 removed standard, remains in the 2024	N	N	A	A				
248		1302.9	Piping systems	N	2021 added a section, remains in the 2024	N	N	A	A				
249		1303.3	Joint preparation and installation	N	2021 added press-joint connect, remains in the 2024	N	N	A	A				
250		1303.3.2	Mechanical joints	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
251		1303.3.5	Press-connect joints	N	2021 added press-joint connect, remains in the 2024	N	N	A	A				
252		1303.4	Copper or copper-alloy tubing	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
253		1303.7	Steel and stainless steel pipe	N	2021 added stainless steel and verbiage remains in the 2024	N	N	A	A				
254		1303.8	Steel and stainless steel tubing	N	2021 added stainless steel and verbiage remains in the 2024	N	N	A	A				
255		1402.8.1.2	Roof-mounted solar thermal collectors and systems	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
256		1404	Labeling	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
257		Chapter 15	Referenced Standards	Y	2021 and 2024 changed the section. Minnesota amends as well.	N	N	Need to change the amedment to reference the latest standards. NFPA 96 ASHRAE 154 and others	A				

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

Model Code: 2024 IMC

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		N=None, L=Low M=Med, H=High	Y or N			Y or N			
258	1346.1600.		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	Repeal minnesota amendment			Delete chapter 16	
259	Index							Need to verify the index is up to date with the changes					
260	1346.0313		Carbon monoxide alarms	Y	Amendment need revisiting	N	N	Need to make changes to meet 1305	TABLE				

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

Model Code: 2024 IFGC

To be completed by Chair						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		N=None, L=Low M=Med, H=High	Y or N			Y or N		
1	1346.5101		Systems, appliances, and equipment outside the scope	Y		N	N	Items 1 and 13 address LP gas but nothing on natural gas. Suggest amending to remove items 1 and 13 to help insure life safety and prevent property loss and to align with fire code. Need to add a reference to NFPA 501A (manufactured structures)				Table NFPA 501A for consideration when we get to item 149. No action will be needed if we remove 1346.6000 as an amendment.
2	1346.0201.4	201.4	Terms not defined	Y	Chapter 1300 is looking to change the definition	N	N	Need to table and revisit when the MN rules 1300 makes a decision				Table
3		202	Approved agency	N	2024 changed verbiage	N	N	Follow IMC language	A			
4		202	Listed	N	2024 changed verbiage	N	N	Follow IMC language	A			
5		202	Peer review	N	2024 added a definition	N	N	Follow IMC language	A			
6		202	Point of delivery	N	2021 changed verbiage, remains in the 2024	N	N	Accept: Very minor changes	A			
7		202	Press-connect joint	N	2021 added a definition, remains in the 2024	N	N	Follow IMC language	A			
8		202	Regulator, monitoring	N	2021 changed verbiage, remains in the 2024	N	N	Accept: Very minor changes	A			
9		202	Service meter assembly	N	2021 added a definition, remains in the 2024	N	N	Accept: Provides clarity	A			
10		202	System shutoff	N	2021 added a definition, remains in the 2024	N	N	Accept: Provides clarity	A			
11		202	Thermostat	N	2021 changed by adding integral gas valve type, remains in the 2024	N	N	A	A			
12		202	Valve	N	2021 changed definition of service shutoff, remains in the 2024	N	N	Accept: Very minor changes	A			
13		302.3	Cutting, notching and boring in wood members	N	2024 changed verbiage	N	N	Follow IMC language	A			
14		302.3.2	Joist notching and boring	N	2024 removed section	N	N	A	A			
15		302.3.3	Stud cutting and notching	N	2024 removed section	N	N	A	A			

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

Model Code: 2024 IFGC

To be completed by Chair								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		N=None, L=Low M=Med, H=High	Y or N			Y or N			
16		302.3.4	Bored holes	N	2024 removed section	N	N	A	A				
17		302.6	Cutting and notching in cold-formed steel framing	N	2024 changed verbiage adding AISI S240 and AISI S220	N	N	A	A				
18		302.7	Cutting, notching and boring in non-structural cold-formed steel wall framing	N	2024 removed section	N	N	A	A				
19	1346.5303.3.1	303.3.1	Fireplaces and decorative appliances in group I-2 occupancies	N	2021 changed verbiage, remains in the 2024	N	N	Visit the 2020 SONAR. Will changes in the 2021 IFGC be sufficient?				Table	
20	1346.5304.1	304.1	Combustion, ventilation and dilution air, general	Y	2024 changed verbiage, Minnesota has an amendment.	N	N	Need to revisit and make changes as required to follow IRC mechanical language				Tim and John CCP	
21	1346.5304.6.1	304.6.1	Two-permanent-openings method	Y	Minnesota amendment	N	N	Review to see if anyone would use the method and if they choose, what is the issue? Thinking of a boiler room for example				Tim and John CCP	
22	1346.5304.6.2	304.6.2	One-permanent-opening method	Y	Minnesota amendment	N	N	A: History might not be a reason to keep amendment.				Tim and John CCP	
23		304.8	Engineering installations	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
24	1346.5304.11	304.11	Combustion air ducts	Y	Minnesota amendment	N	N	Revisit to make necessary changes				Tim and John CCP	
25		304.12	Protection from fumes and gases	N	2024 changed verbiage	N	N	A	A				
26		306.1	Access for maintenance and replacement	N	2024 changed verbiage	N	N	A	A				
27	1346.5306.5	306.5	Mechanical equipment and appliances on roofs and elevated structures	Y	Minnesota amendment	N	N	Follow IMC language				Verify IMC language Staff will write CCP	

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

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28	1346.5306.6	306.6	Guards	Y	2021 changed verbiage, remains in the 2024	N	N	Request removing the exception that allows fall arrest/restraint anchorage connection devices because of snow on roofs and the inability to find these devices.				Brian CCP	
29		307.2	Fuel-burning appliances	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
30		307.3	Drain pipe material and sizes	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
31	1346.5307.6	307.6	Condensate pumps	Y	Minnesoata deleted section	N	N	Follow IMC language	A			Keep amendment	
32		310.1	Pipe and tubing other than CSST	N	2024 changed verbiage	N	N	A	A				
33		310.3	Arc-resistant CSST	N	2024 changed verbiage	N	N	A	A				
34	1346.5311		Carbon monoxide alarms	Y	Minnesota amendment	N	N	Review and add changes, revise in IMC				Table, Brian will draft CCP	
35		401.5	Identification	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
36	1346.5401.5.1		Medium and high pressure identification	Y	Minnesota amendment	N	N	Suggest removing amendment as 401.5 model code language would require all pipe to be labeled.	Repeal				
37		402.3	Sizing	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
38		402.6	Allowable pressure drop	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
39		402.7	Maximum operating pressure	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
40	Table 402.4(2)A		Pipe sizing table for natural gas	Y	Minnesota amendment	N	N	Is there anywhere that this table is still needed? Research to see if amendment can be removed	A				
41		403.3	Other materials	N	2021 removed section and renumbered the rest of the section, not added to the 2024.	N	N	A	A				
42	1346.5403.4.2	403.3.2	Steel	Y	Minnesota amendment	N	N	Suggest removing amendment as the amendment is not Minnesota specific	Repeal				

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43		403.6	Workmanship and defects	N	2024 changed verbiage	N	N	A	A				
44	1346.5403.8	403.7	Protective coating	Y	Minnesota amendment	N	N	Minnesota amendment is more specific, no issues with removing or keeping amendment	Repeal				
45		403.8.3	Threaded joint sealing	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
46		403.9	Metallic piping joints and fittings	N	2024 changed verbiage	N	N	A	A				
47	1346.5403.10.1	403.9.1	Pipe joints	Y	Minnesota amendment	N	N	Suggest removing amendment as the amendment is not Minnesota specific	Repeal				
48		403.10.	Plastic pipe, joints and fittings	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
49		403.11.3	Nonferrous	N	2024 changed verbiage	N	N	A	A				
50		403.12.1	Flanges	N	2024 added a section, renumbered rest of section	N	N	A	A				
51		404.5	Fittings in concealed locations	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
52	1346.5404.6	404.6	Underground penetrations prohibited	Y	Minnesota amendment	N	N	Suggest removing amendment as the amendment is not Minnesota specific.	Repeal				
53		404.8.2	Conduit with both ends terminating indoors	N	2024 changed verbiage	N	N	A	A				
54		404.11.5	Prohibited use	N	2021 removed section, not added to the 2024.	N	N	A	A				
55	1346.5404.14	404.14	Piping underground beneath buildings	Y	Minnesota amendment	N	N	Suggest removing amendment as the amendment is not Minnesota specific.	Repeal				
56		404.14.2	Conduit with both ends terminating indoors	N	2024 changed verbiage	N	N	A	A				

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57		404.18	Pipe debris removal	N	2021 changed title and verbiage, kept in the 2024	N	N	A	A				
58	1346.5406.1.2	406.1.2	Alterations, repairs and additions	Y	Minnesota amendment	N	N	Visit the amendment and rewrite as needed or remove.	Repeal				
59		406.1.2	Repairs and additions	Y	2024 changed verbiage and header	N	N	Removed alterations. Need to review section following previous change.	A				
60	1346.5406.1.5	406.1.5	Regulators and valve assemblies	Y	Minnesota amendment	N	N	Minnesota removed section. Need to review.	Repeal				
61	1346.5406.4.1	406.4.1	Test pressure	Y	Minnesota amendment	N	N	A: review for any changes needed	Keep amendment			Cannot repeal without CCP, suggest keeping amendment as the vote to accept was so close	
62	1346.5406.4.2	406.4.2	Test duration	Y	Minnesota amendment	N	N	A: review for any changes needed	Repeal				
63	1346.5406.4.3		Test guages	Y	Minnesota added amendment	N	N	A: review for any changes needed	Repeal				
64		406.5.1	Detection methods	N	2024 changed verbiage	N	N	A	A				
65		406.7.3.1	Abandoned fuel gas piping	N	2024 added a new section	N	N	A	A				
66	1346.5409.1.4		Main shutoff valve	Y	Minnesota amendment	N	N	Repeal				Table John CCP	
67	1346.5409.2	409.2	Meter valve	Y	Minnesota amendment	N	N	Repeal				Table John CCP	
68	1346.5409.3.1	409.3.1	Multiple-tenant buildings	Y	Minnesota amendment	N	N	Repeal	Repeal				
69		409.5.3	Located at manifold	N	2024 changed verbiage	N	N	A	A				
70		409.6	Shutoff valve for laboratories	N	2024 changed verbiage	N	N	A: any thought on solenoids?	A				
71	1346.5410.3	410.3	Venting of regulators	Y	Minnesota amendment	N	N	Consider model code language	Keep amendment				
72		411.1	Connecting appliances	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
73		411.1.6	Unions	N	2024 changed verbiage	N	N	A	A				
74		F413.2.3	Residential fueling appliances	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
75		F413.2.4	Nonresidential fueling appliances	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
76		F413.4	Residential fueling appliance installation	N	2021 changed verbiage, remains in the 2024	N	N	A	A				

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77		F413.5	Nonresidential fueling appliance installation	N	2021 changed verbiage, remains in the 2024	N	N	A	A			
78		416.3	Overpressure protection devices	N	2024 changed verbiage	N	N	A	A			
79		416.3.6	Size of fittings, pipe and openings	N	2024 changed verbiage	N	N	A	A			
80	1346.5501.7	501.7	Connection to Fireplace	Y	Minnesota amendment. 2024 changed verbiage.	N	N	Suggest removing or rewriting amendment as the requirement is not Minnesota specific.				Table Chris CCP
81	1346.5501.8	501.8	Appliances not required to be vented	Y	Minnesota amendment	N	N	Suggest removing or rewriting amendment as the requirement is not Minnesota specific.	Keep amendment			
82	1346.5501.12	501.12	Residential and low-heat appliances flue lining systems	Y	Minnesota amendment	N	N	Suggest removing or rewriting amendment as the requirement is not Minnesota specific.	Repeal			
83	1346.5503.2.2	503.2.2	Well-ventilated spaces	Y	Minnesota amendment	N	N	Minnesota removed section. Could be detrimental for direct-fired MUA units	Repeal			
84		503.2.3	Direct-vent appliances	N	2021 changed verbiage, remains in the 2024	N	N	A	A			
85		503.2.4	Appliances with intergral vents	N	2021 changed verbiage, remains in the 2024	N	N	A	A			
86		503.2.5	Incinerators	N	2021 changed verbiage, remains in the 2024	N	N	A	A			
87		503.3.3	Mechanical draft systems	N	2021 removed item 6, remains deleted in 2024	N	N	A	A			
88		503.5.1	Factory-built chimneys	N	2021 changed verbiage, remains in the 2024	N	N	A	A			
89	1346.5503.5.5	503.5.5	Size of chimneys	Y	Minnesota amendment, also 2021 changed verbiage, remains in 2024	N	N	Consider model code language	Repeal			
90	1346.5503.5.6	503.5.6	Inspection of chimney	Y	Minnesota added an exception, not in model code language	N	N	?	Repeal			
91		503.5.6.1	Chimney lining	N	2021 removed the exception, remains in the 2024	N	N	A	A			
92		503.5.11	Insulation sheild	N	2021 changed verbiage, remains in the 2024	N	N	A	A			
93	1346.5503.6.10.1	503.6.10.1	Category I appliances	Y	Minnesota amendment, also 2021 changed verbiage, remains in 2024	N	N	Consider model code language	A			
94		503.6.10.4	Mechanical draft	N	2021 changed verbiage, remains in the 2024	N	N	A	A			

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95		503.6.11	Gas vents serving appliances on more than one floor	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
96		503.7.9	Size of single-wall metal pipe	N	2021 changed verbiage, remains in the 2024 Minnesota amendment	N	N	A	A				
97		503.8	Venting system terminal clearances	N	2021 changed title and verbiage, kept in the 2024. All the numbered parts have been removed	N	N	A	A				
98		Table 503.8	Through-the-wall vent terminal clearance	N	2021 changed title and table, kept in the 2024. The table is more informative	N	N	A	A				
99		503.10.2.5	Medium-heat appliances	N	2021 changed verbiage in item 4, remains in the 2024	N	N	A	A				
100		Figure 503.8	Figure 503.8 Through-the-wall vent terminal clearance	N	New table not in the 2018 IMC, remains in the 2024	N	N	A	A				
101		503.10.3.1	Single draft hood and fan-assisted	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
102		503.10.3.2	Multiple draft hood	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
103		503.10.3.3	Multiple appliances	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
104		503.10.3.4	Common connector/manifold	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
105		503.10.7	Connector junctions	N	2021 added section, renumbered rest of 503.10 remains in the 2024	N	N	A	A				
106		503.12.2.2	Special design draft hood	N	2021 removed section, still gone in the 2024	N	N	A	A				
107		503.13	Manually operated dampers	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
108		503.14	Automatically operated vent dampers	N	2021 changed verbiage, 2024 changed title and verbiage.	N	N	A	A				
109		503.15	Obstructions	N	2021 changed verbiage in items 2 and 5, remains in the 2024	N	N	A	A				
110	1346.5504.2.8	504.2.8	Vent area and diameter	Y	Minnesota amendment	N	N	Vent sizing down to 4 from 7 in model code	A				
111		504.2.16	Engineering calculations	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
112		504.3.12	Vent height measurement	N	2021 changed verbiage, remains in the 2024	N	N	A	A				
113		504.3.13	Multistory height measurement	N	2021 changed verbiage, remains in the 2024	N	N	A	A				

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114	1346.5504.3.17	504.3.17	Vertical vent maximum size	Y	Minnesota amendment	N	N	Vent sizing down to 4 from 7 in model code					
115		504.3.18	Multiple input rate appliances	N	2021 changed verbiage, remains in the 2024	N	N	A					
116	1346.5504.3.19	504.3.19	Liner system sizing and connections	Y	Minnesota amendment	N	N	Review to verify amendment is necessary					
117		602.1	General	N	2021 changed verbiage, 2024 also changed verbiage.	N	N	A					
118		602.2	Flame safeguard device	N	2021 changed verbiage, remains in the 2024	N	N	A					
119	1346.5602.3	602.3	Prohibited installations	Y	Minnesota amendment	N	N	Keep amendment					
120		603.1	Log lighters	N	2021 changed verbiage, remains in the 2024	N	N	CSA 8 changes					
121		604.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
122		605.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
123		608.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
124		609.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
125		610.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
126		611.2	Installation	N	2021 changed verbiage, remains in the 2024	N	N	A: Review to see if an amendment is necessary to clarify where nonrecirculating direct-fired industrial air heaters can be installed					
127		612.2	Location	N	2021 changed verbiage, remains in the 2024	N	N	A: Review to see if an amendment is necessary to clarify where recirculating direct-fired industrial air heaters can be installed					
128		613.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
129		M614.4.1	Termination location	N	2021 added section, renumbered the rest of 614, remains in the 2024	N	N	A					
130		M614.6	Booster fans prohibited		2021 added section, renumbered makeup air, remains in the 2024	N	N	A					
131		M614.7.1	Closet installation	N	2021 added section, remains in the 2024	N	N	A					
132		617.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
133		618.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
134		618.6	(IFGS) Furnace plenums and air ducts	N	2021 changed verbiage, remains in the 2024	N	N	A					
135		620.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					

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136	1346.5621	621	Unvented room heaters	Y	Minnesota amendment	N	N	Keep amendment					
137		622.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
138		623.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
139		624.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
140		625.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
141		627.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
142		628.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
143		630.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
144	1346.5630.3	630.3	Combustion and ventilation air	Y	Minnesota amendment	N	N	Revis amendment, is reference to MUA needed here?					
145		634	Chimney damper area opening	N	2021 removed section, renumbered rest of chapter 6, remains the same in 2024	N	N	A					
146		635.1	General	N	2021 changed verbiage, remains in the 2024	N	N	A					
147	1346.5636		Outdoor cooking appliainces	N	Add section to address gas valves and flameguard devices on permanently indoor gas cooking appliances	Y	Y	Review with TAG					
148	1346.5900.		Installation and testing of fuel gas-fired appliances	Y	Minnesota amendment	N	N	Review with TAG and remove as per IMC chapter 16					
149	1346.6000.		Manufactured home park/community fuel gas equipment and appliance installation	Y	Minnesota amendment			Remove chapter 10 as 1346.5101 subpart 3 adresses NFPA 501A					

