

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 | | | | Table for future considerations | |
| 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 | AM | | | 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 | | | Follow 1311 Building Official | |
| 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 appliances. | 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 | | | |
| 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 | |

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| | | | | Y or N | | N=None, L=Low M=Med, H=High | Y or N | | Y or N | | | | |
| 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 | A | | | Co to building official | |
| 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 | | | |
| 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 | | | | |

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| | | | | Y or N | | N=None, L=Low M=Med, H=High | Y or N | | | Y or N | | | |
| 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 | | | | Brian will call elevator TAG leaders and get clarification | |
| 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 | | | | Concerns with spacing table. Need revisiting? | |
| 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 | R | | | John write CCP | |
| 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 | |
| 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 | |
| 54 | 1346.0306.5.2 | 306.5.2 | Electrical requirements | Y | | N | N | Remove amendment. Keep model code language. | AM | | | Will need to revisit in the IRC mechanical provisions. Keep amendment | |
| 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 | |
| 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 | | | | |

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| 59 | | 307.2.3.3 | Identification | N | Added verbage 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. | | | | Staff will write CCP align with IFGC | |
| 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. | | | | Move to 608 and Chapter 12 John will CCP | |
| 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 | | | | |
| 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 facilites, outpatient healthcare facilities and other changes. | N | N | A | A | | | | |

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| 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. | | | | TABLE | |
| 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. | | | | TABLE | |
| 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. | | | | TABLE | |
| 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. | | | | TABLE | |
| 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. | | | | TABLE | |
| 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. | | | | TABLE | |
| 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. | | | | TABLE | |
| 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 | |
| 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 | | | | |

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| 85 | | 501.2 | Independent system required | N | Changed verbiage in the 2021, copied in the 2024. | N | N | A | | | | Lewis Johnson will revist with 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. | Keep amendment | | | john will revisit with CCP | |
| 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 | | | | 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 | |
| 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 | Modify amendment as needed. | | | | Table for staff review | |
| 104 | 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. | | | | Table for staff review | |

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| 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. | | | | Table for staff review | |
| 106 | 1346.0506.4.1.1 | | Testing | Y | | N | N | Modify amendment as needed providing guidance. | | | | Table for staff review | |
| 107 | 1346.0506.5 | 506.5 | Exhaust equipment | Y | | N | N | Modify amendment to include IMC 506.5.2. | | | | Table for staff review | |
| 108 | 1346.0507 | 507 | Commercial Kitchen Hoods | Y | | N | N | Keep amendment | | | | Table for staff review | |
| 109 | 1346.0508.1 | 508.1 | Makeup air | Y | | N | N | Keep amendment | | | | Table for staff review | |
| 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 | | | | Table for staff review, also review food code and OSHA | |
| 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 amendment | N | N | Remove amendment. Keep model code language. TAG members to research this section. | | | | TAG member will provide a CCP | |
| 115 | 510.4 | 509.4 | Independent system | N | 2021 removed code section, 2024 followed | N | N | Accept. Review Minnesota amendment to 510.1. | 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 | | | | |
| 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 | | | | |

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 | | | |
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| 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 | | | |
| 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 | | | | |
| 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 | Table | | | Tag member will draft amendment | |

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

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| | | | | Y or N | | N=None, L=Low M=Med, H=High | | | Y or N | Y or N | | | |
| 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 | | | | | |
| 155 | | 905.1 | Fireplace, stoves and heaters | N | 2021 added verbiage, remains in the 2024 | N | N | A | | | | | |
| 156 | | 907.1 | Incinerators and crematories | N | 2024 changed verbiage | N | N | A | | | | | |
| 157 | | 908.1 | Cooling towers, evaporative condensers and fluid coolers | N | 2021 changed verbiage, remains in the 2024 | N | N | A | | | | | |
| 158 | | 912.1 | Infrared radiant heaters | N | 2024 changed verbiage | N | N | A | | | | | |
| 159 | | 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 | | | | | |
| 160 | | 916.1 | Pool and spa heaters | N | 2021 changed verbiage, remains in the 2024 | N | N | A | | | | | |
| 161 | | 918.1 | Forced-air warm-air furnaces | N | 2021 changed verbiage, remains in the 2024 | N | N | A | | | | | |
| 162 | | 918.2 | Heat pumps | N | 2021 changed verbiage, remains in the 2024 | N | N | 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. | | | | | |
| 164 | | 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. | | | | | |
| 165 | | 930 | Large diameter ceiling fans | N | 2021 renumbered from 929, remains in the 2024 | N | N | A | | | | | |
| 166 | | 931 | Steam bath equipment | N | New section in the 2024 | N | N | A | | | | | |
| 167 | MR1346.1001.1 | 1001.1 | Boilers | Y | Minnesota amends this section, also revised in the 2024. | N | N | A | | | | | |
| 168 | MR1346.1001.2 | | Boilers | Y | Minnesota amendment, | N | N | Visit amendment to follow direction from Boiler and HPP divisions | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 171 | MR1346.1004.1 | 1004.1 | Standards | Y | Minnesota amends this section, also revised in the 2021, | N | N | needs revisiting | | | | | |
| 172 | MR1346.1006.4 | 1006.4 | Approval of safety and safety relief valves | Y | Minnesota amendment | N | N | Revert to model code language | | | | | |
| 173 | MR1346.1006.6 | 1006.6 | Safety and relief discharge | Y | Minnesota amendment. Also 2024 changed verbiage | N | N | Revert to model code language | | | | | |
| 174 | MR1346.1006.9 | 1006.9 | Boiler shutdown switch | Y | Minnesota amendment | N | N | Visit amendment to follow direction from Boiler and HPP divisions | | | | | |

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

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| | | | | Y or N | | N=None, L=Low M=Med, H=High | Y or N | | | Y or N | | | |
| 175 | MR1346.1007.1 | 1007.1 | Boiler low water cutoff | Y | Minnesota amendment | N | N | Revert to model code language | | | | | |
| 176 | MR1346.1011.1 | 1011.1 | Tests | Y | Minnesota amendment | N | N | Revert to model code language | | | | | |
| 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 | | | | | |
| 178 | | 1101.1.1 | Refrigerants other than ammonia | N | 2021 added section, 2024 revised verbiage from the 2021 | N | N | A | | | | | |
| 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 | | | | | |
| 180 | | 1101.2 | Factory-built equipment and appliances | N | 2021 added verbiage, remains in the 2024 | N | N | A | | | | | |
| 181 | | Table 1101.2 | Factory-built equipment and appliances | N | Table changed in the 2021, remains in the 2024 | N | N | A | | | | | |
| 182 | | 1101.2.1 | Group a2L, A2, A3 amd B1 high-probability equipment | N | 2024 added a section | N | N | A | | | | | |
| 183 | | 1101.6 | Refrigeration general | N | 2021 removed this section, still removed in 2024 | N | N | A | | | | | |
| 184 | | 1101.6 | Maintenance | N | 2021 renumbered from 1101.7. 2024 changed verbiage | N | N | A | | | | | |
| 185 | | 1101.7 | Change in refrigerant type | N | 2024 changed heading and verbiage | N | N | A | | | | | |
| 186 | | 1102.1 | System requirements | N | 2024 changed verbiage | N | N | A | | | | | |
| 187 | | 1102.2.1 | Mixing | N | 2024 changed verbiage | N | N | 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 | | | | | |
| 189 | | Section 1104 | Refrigeration System Application Requirements | N | 2024 changed the title | N | N | A | | | | | |
| 190 | | 1104.2 | Machinery room | N | 2024 changed verbiage | N | N | A | | | | | |
| 191 | | 1104.2.2 | Industrial occupancies and refrigerated rooms | N | 2021 changed verbiage and 2024 also changed verbiage | N | N | A | | | | | |
| 192 | | 1104.3.1 | Air conditioning for human comfort | N | 2024 changed verbiage and layout | N | N | A | | | | | |
| 193 | | 1104.3.2 | Group A2, A3, B2 and B3 refrigerants | N | 2024 changed heading and verbiage | N | N | A | | | | | |
| 194 | | 1104.3.3 | All occupancies | N | 2021 changed verbiage, remains in the 2024 | N | N | A | | | | | |
| 195 | | 1104.3.4 | Protection from refrigerant decomposition | N | 2021 changed verbiage in exception 1, remains in the 2024 | N | N | A | | | | | |
| 196 | | 1105.6.3 | Ventilation rate | N | 2021 changed verbiage, remains in the 2024 | N | N | A | | | | | |
| 197 | | 1105.8 | Ammonia discharge | N | 2021 removed the section, copied in the 2024 | N | N | A | | | | | |
| 198 | | 1105.9 | Emergency pressure control system | N | 2021 renumbered to 1109.8 and changed verbiage, remains in the 2024 | N | N | A | | | | | |
| 199 | | 1105.9 | Means of egress | N | 2021 added a section, copied in the 2024 | N | N | A | | | | | |
| 200 | | 1106.3 | Ammonia room ventilation | N | 2021 removed section, still removed in the 2024. renumbered following sections | N | N | A | | | | | |
| 201 | | 1106.4 | Flammable refrigerants | N | 2021 changed verbiage, renumbered section to 1106.3. 2024 renamed section to Class 2 and 3 refrigerants and verbiage | N | N | A | | | | | |
| 202 | | 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 | | | | | |

New Changes in Mechanical Fuel Gas Code TAG Review Worksheet

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| | | | | Y or N | | N=None, L=Low M=Med, H=High | Y or N | | | Y or N | | | |
| 203 | | 1106.4.1 | Elevated temperatures | N | 2021 changed verbiage. 2024 removed changes to the 2021 and added a new section | N | N | A | | | | | |
| 204 | | 1106.4.2 | Refrigerant detector | N | 2024 added a section | N | N | A | | | | | |
| 205 | | 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 | | | | | |
| 206 | | 1106.4.3 | Mechanical ventilation | N | 2024 added a section and removed 1106.5.3 | N | N | A | | | | | |
| 207 | | 1107 | Piping materials | N | 2021 changed the entire section, 2024 made revisions to the entire section. | N | N | A | | | | | |
| 208 | | 1108 | Joints and connections | N | 2021 changed the entire section, 2024 made revisions to the entire section. | N | N | A | | | | | |
| 209 | | 1109 | Refrigerant pipe installation | N | 2021 changed the entire section, 2024 made revisions to the entire section. | N | N | A | | | | | |
| 210 | | 1110 | Refrigerant piping system test | N | 2021 changed the entire section, 2024 made revisions to the entire section. | N | N | A | | | | | |
| 211 | 1109 | 1111 | Periodic testing | N | 2021 renumbered section to 1111, remains in the 2024 | N | N | A | | | | | |
| 212 | | 1201.1 | Hydronic piping | N | 2024 changed verbiage | N | N | A | | | | | |
| 213 | | Table 1202.4 | Hydronic pipe | N | 2021 changed table as did 2024 | N | N | A | | | | | |
| 214 | | Table 1202.5 | Hydronic pipe fittings | N | 2021 changed table as did 2024 | N | N | A | | | | | |
| 215 | | 1203.3.4 | Solvent-cemented joints | N | 2021 changed verbiage as did 2024 | N | N | A | | | | | |
| 216 | | 1203.7 | CPVC plastic pipe | N | 2021 changed verbiage remains in the 2024 | N | N | A | | | | | |
| 217 | | 1203.8 | CPVC/AL/CPVC plastic pipe | N | 2021 added section, renumbered rest of section remains in the 2024 | N | N | A | | | | | |
| 218 | | 1203.8 | Polybutylene plastic pipe and tubing | N | 2024 removed section, renumbered rest of section | N | N | A | | | | | |
| 219 | | 1203.9.3 | Push-fit fittings | N | 2021 renamed section and changed verbiage, remains in 2024 | N | N | A | | | | | |
| 220 | | 1203.13 | Stainless steel pipe | N | 2024 added section, renumbered rest of section | N | N | A | | | | | |
| 221 | | 1203.14 | Stainless steel tubing | N | 2024 added section, renumbered rest of section | N | N | A | | | | | |
| 222 | | 1203.16.3 | Push-fit fittings | N | 2021 changed verbiage, copied in the 2024 | N | N | A | | | | | |
| 223 | | 1205.1 | Where required | N | 2024 changed verbiage | N | N | A | | | | | |
| 224 | MR1346.1205.1.6 | 1205.1.6 | Expansion tanks | Y | Minnesota Amendment | N | N | Revert to model code language | | | | | |
| 225 | MR1346.1206.1.1 | | Prohibited tee applications | Y | Minnesota Amendment | N | N | Revert to model code language | | | | | |
| 226 | MR1346.1206.12 | | Draining and venting | Y | Minnesota Amendment almost copies 1206.2 | N | N | Revert to model code language | | | | | |
| 227 | | 1209.1 | Materials | N | 2024 changed verbiage | N | N | A | | | | | |
| 228 | | 1209.3.3 | Polybutylene joints | N | 2024 removed section and renumbered rest of section 1209.3 | N | N | A | | | | | |
| 229 | | 1209.5 | Insulation and thermal break required | N | 2021 changed heading and verbiage, remains in the 2024 | N | N | A | | | | | |
| 230 | | 1209.5.2 | Insulation material marking | N | 2021 changed heading and verbiage, remains in the 2024 | N | N | A | | | | | |
| 231 | | 1209.6 | Radiant tubing placement | N | 2024 added a new section | N | N | A | | | | | |
| 232 | | 1209.6.1 | Radiant tubing circuit length | N | 2024 added a new section | N | N | A | | | | | |
| 233 | | Table 1209.6.1 | Maximum circuit length of radiant tubing... | N | 2024 added a new table | N | N | A | | | | | |
| 234 | | 1209.6.2 | Radiant tubing circuit tags | N | 2024 added a new section | N | N | A | | | | | |

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| | | | | Y or N | | N=None, L=Low M=Med, H=High | Y or N | | | Y or N | | | |
| 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 | | | | | |
| 236 | | 1209.7 | Snow-and ice-melt tubing placement | N | 2024 added a new section | N | N | A | | | | | |
| 237 | | 1209.7.1 | Snow-and ice-melt tubing circuit length | N | 2024 added a new section | N | N | A | | | | | |
| 238 | | Table 1209.7.1 | Maximum circuit length of snow and ice-ment tubing... | N | 2024 added a new table | N | N | 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 | | | | | |
| 240 | | Table 1210.4 | Ground-source loop pipe | N | 2021 revised table adding standards as did 2024 | N | N | A | | | | | |
| 241 | | Table 1210.5 | Ground-source loop pipe fittings | N | 2021 revised table adding standards as did 2024 | N | N | A | | | | | |
| 242 | | 1210.6 | Joints | N | 2024 changed verbiage | N | N | A | | | | | |
| 243 | | 1210.6.2 | Preparation of pipe ends | N | 2021 changed verbiage, remains in the 2024 | N | N | A | | | | | |
| 244 | | 1210.8 | Installation | N | 2021 added standard, remains in the 2024 | N | N | A | | | | | |
| 245 | | 1301.4 | Fuel tanks, piping, fitting and valves | N | 2021 changed heading and verbiage, remains in the 2024 | N | N | A | | | | | |
| 246 | | Table 1302.3 | Fuel oil piping and fittings | N | 2021 changed heading and verbiage, remains in the 2024 | N | N | A | | | | | |
| 247 | | 1302.8 | Flexible connectors and hoses | N | 2021 removed standard, remains in the 2024 | N | N | A | | | | | |
| 248 | | 1302.9 | Piping systems | N | 2021 added a section, remains in the 2024 | N | N | A | | | | | |
| 249 | | 1303.3 | Joint preparation and installation | N | 2021 added press-joint connect, remains in the 2024 | N | N | A | | | | | |
| 250 | | 1303.3.2 | Mechanical joints | N | 2021 changed verbiage, remains in the 2024 | N | N | A | | | | | |
| 251 | | 1303.3.5 | Press-connect joints | N | 2021 added press-joint connect, remains in the 2024 | N | N | A | | | | | |
| 252 | | 1303.4 | Copper or copper-alloy tubing | N | 2021 changed verbiage, remains in the 2024 | N | N | A | | | | | |
| 253 | | 1303.7 | Steel and stainless steel pipe | N | 2021 added stainless steel and verbiage remains in the 2024 | N | N | A | | | | | |
| 254 | | 1303.8 | Steel and stainless steel tubing | N | 2021 added stainless steel and verbiage remains in the 2024 | N | N | A | | | | | |
| 255 | | 1402.8.1.2 | Roof-mounted solar thermal collectors and systems | N | 2021 changed verbiage, remains in the 2024 | N | N | A | | | | | |
| 256 | | 1404 | Labeling | N | 2021 changed verbiage, remains in the 2024 | N | N | 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 | | | | | |

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| | | | | Y or N | | N=None, L=Low M=Med, H=High | Y or N | | | Y or N | | | |
| 258 | 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 | | | | | |
| 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 | | | | | |