

Rule Summary and Fiscal Analysis

Part A - General Questions

Rule Number: 4101:2-11-01
Rule Type: New
Rule Title/Tagline: Refrigeration.
Agency Name: Department of Commerce
Division: Board of Building Standards: Ohio Mechanical Code
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I. Rule Summary

1. **Is this a five year rule review?** No
 - A. **What is the rule's five year review date?**
2. **Is this rule the result of recent legislation?** No
3. **What statute is this rule being promulgated under?** 119.03
4. **What statute(s) grant rule writing authority?** 3781.10(A)(1), 4104.43 (A)(1)
5. **What statute(s) does the rule implement or amplify?** 3781.10, 3781.11, 3791.04
6. **Does the rule implement a federal law or rule in a manner that is more stringent or burdensome than the federal law or regulation requires?** No
 - A. **If so, what is the citation to the federal law or rule?** Not Applicable
7. **What are the reasons for proposing the rule?**

This rule is proposed to comply with the five-year rule review requirement and to update the Ohio Mechanical Code (OMC) to the 2021 International Mechanical Code (IMC) model code published by ICC. This new rule is being filed to replace a rescinded rule of the same rule number.

8. **Summarize the rule's content, and if this is an amended rule, also summarize the rule's changes.**

This rule prescribes requirements for refrigeration equipment and piping systems located within non-residential buildings.

9. **Does the rule incorporate material by reference? Yes**
10. **If the rule incorporates material by reference and the agency claims the material is exempt pursuant to R.C. 121.75, please explain the basis for the exemption and how an individual can find the referenced material.**

The referenced standards are generally available to the affected parties. The referenced standards can easily be purchased from or may be viewed on websites of the standards making organizations. The affected parties typically would be product manufacturers, design professionals, builders, and contractors. These parties would be expected to already own or have access to the standards in order to conduct their business of manufacturing, testing, designing, and installing the building systems and products.

It was infeasible for the agency to file the text electronically due to copyright issues with the standards making organizations. The standards are generally available.

11. **If revising or re-filing the rule, please indicate the changes made in the revised or re-filed version of the rule.**

Not Applicable

II. Fiscal Analysis

12. **Please estimate the increase / decrease in the agency's revenues or expenditures in the current biennium due to this rule.**

This will have no impact on revenues or expenditures.

\$0.00

This rule addresses building design issues. The requirements of the rule do not fiscally affect the Board of Building Standards, the Department of Commerce, or the state.

13. **What are the estimated costs of compliance for all persons and/or organizations directly affected by the rule?**

Due to the variance in allowed building designs, it is very difficult to ascertain, in dollars, a cost increase or decrease in the design cost of a building as a result of this proposed code update. When a code change proponent submits a petition to the ICC to amend the model code an estimated cost impact of the proposal is included with the proposed change. Some changes result in a cost increase while others actually reduce the cost of construction. The board has carefully evaluated all of these changes and balanced any increases in cost with an added benefit of enhanced life safety to the building occupants or ease of maintenance of required systems. Additional information regarding the cost impact of the entire Mechanical Code can be found in the attached BIA document.

14. **Does the rule increase local government costs? (If yes, you must complete an RSFA Part B). No**
15. **Does the rule regulate environmental protection? (If yes, you must complete an RSFA Part C). No**
16. **If the rule imposes a regulation fee, explain how the fee directly relates to your agency's cost in regulating the individual or business.**

Not applicable.

III. Common Sense Initiative (CSI) Questions

17. **Was this rule filed with the Common Sense Initiative Office? Yes**
18. **Does this rule have an adverse impact on business? No**
 - A. **Does this rule require a license, permit, or any other prior authorization to engage in or operate a line of business? No**
 - B. **Does this rule impose a criminal penalty, a civil penalty, or another sanction, or create a cause of action, for failure to comply with its terms? No**
 - C. **Does this rule require specific expenditures or the report of information as a condition of compliance? No**
 - D. **Is it likely that the rule will directly reduce the revenue or increase the expenses of the lines of business of which it will apply or applies? No**

IV. Regulatory Restriction Requirements under S.B. 9. Note: This section only applies to agencies described in R.C. 121.95(A).

19. Are you adding a new or removing an existing regulatory restriction as defined in R.C. 121.95? Yes

A. How many new regulatory restrictions do you propose adding to this rule? 0

B. How many existing regulatory restrictions do you propose removing from this rule? 1

See attached inventory list for rules 4101:2-1 to 4101:2-15. Compared to the rescinded rule, of the original 145 inventoried regulatory restrictions, we are eliminating 145 in this rule by incorporating the generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards by reference pursuant to 121.71 to 121.74 of the Revised Code and simplifying the Ohio modification rule language.

C. If you are not removing existing regulatory restrictions from this rule, please list the rule number(s) from which you are removing restrictions.

D. Please justify the adoption of the new regulatory restriction(s).

Not Applicable

RULE NUMBER	REGULATORY RESTRICTION	DESCRIPTION OF REGULATORY RESTRICTION & 2015 International Mechanical Code document link: https://codes.iccsafe.org/content/IMC2015CU	STATUTE UNDER WHICH THE REGULATORY RESTRICTION WAS ADOPTED
4101:2-1-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-1-01	Shall	101.1 Chapter 4101:2-1 to 4101:2-15 of the Administrative Code shall be designated as the "Ohio Mechanical Code" for which the designation "OMC" may be substituted.	3781.10
4101:2-1-01	Shall	101.1 References in these chapters to "this code" or to the "mechanical code" in other sections of the Administrative Code shall mean the "Ohio Mechanical Code".	3781.10
4101:2-1-01	Shall	101.2 The provisions of this code shall apply to the design, installation, maintenance, alteration, repair, relocation, replacement, addition to, use and inspection of mechanical systems within buildings.	3781.10
4101:2-1-01	Shall	101.2 This code shall also apply to those systems, system components, equipment and appliances specifically addressed herein.	3781.10
4101:2-1-01	Shall	101.4 The application of the referenced standards shall be limited and as prescribed in section 102.5 of the building code.	3781.10
4101:2-2-01	Shall	17 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-2-01	Require	2 "require" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-2-01	Shall not	7 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-2-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-2-01	Shall	Flammable Solid Definition A chemical shall be considered	3781.10
4101:2-3-01	Shall	212 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-3-01	Require	6 "require" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10

4101:2-3-01	Shall not	54 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-3-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-3-01	Shall	301.5 Piping, tubing and fittings shall either be tested or listed by an approved agency as complying with the applicable referenced standards, specifications and performance criteria of this code and shall be identified in accordance with Section 301.3.	3781.10, 4104.43
4101:2-3-01	Shall	301.5 Piping, tubing and fittings shall either be tested or listed by an approved agency as complying with the applicable referenced standards, specifications and performance criteria of this code and shall be identified in accordance with Section 301.3.	3781.10, 4104.43
4101:2-3-01	Shall	301.6 Exception: Welding and brazing of fuel gas piping systems shall also comply with Section 313.	3781.10, 4104.44
4101:2-3-01	Shall	313.2 Each manufacturer or contractor of building services piping systems is responsible for the welding and brazing done by his company or organization and shall specify and certify, in writing, a welding and brazing procedure that provides specific direction to the welder or brazer and complies with section "IX" of the "ASME Boiler and Pressure Vessel Code"	3781.10, 4104.44
4101:2-3-01	Shall	313.3 The manufacturer or contractor shall certify on the record that the tests were conducted in accordance with section IX of the "ASME Boiler and Pressure Vessel Code."	3781.10, 4104.44
4101:2-3-01	Shall	313.4 Each welder or brazer that performs a welding or brazing procedure as described in section 313.2 shall be tested and qualified on that procedure as required in section IX of the "ASME Boiler and Pressure Vessel Code".	3781.10, 4104.44
4101:2-3-01	Shall	313.4 The manufacturer or contractor shall certify on the performance qualification record that the welder or brazer prepared and welded or brazed the test coupons in accordance with section IX and that the test coupons were tested by an independent testing laboratory that has, on staff, a welding inspector certified by the "American Welding Society (AWS)."	3781.10, 4104.44

4101:2-3-01	Shall	313.5 Each manufacturer or contractor of metallic building services piping systems referenced by this code who causes welding or brazing to be performed shall file with the superintendent of the division of industrial compliance in the department of commerce, or the superintendent's designee, certified copies of the welding and brazing procedure specifications, the procedure qualification records, and the welder and brazer performance qualifications of the welders and brazers used in the proposed construction of a new or altered piping system.	3781.10, 4104.44
4101:2-3-01	Shall	313.5 The required documentation shall be submitted in accordance with rules adopted by the superintendent.	3781.10, 4104.44
4101:2-4-01	Shall	103 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-4-01	Must	1 "must" appearing as it does in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-4-01	Shall not	11 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-4-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-4-01	Shall not	Table 403.3.1.1 footnote i The occupant load shall not be greater than that determined by Section 1004 of the building code.	3781.10
4101:2-5-01	Shall	724 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-5-01	Must	1 "must" appearing as it does in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-5-01	Require	4 "require" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-5-01	Shall not	93 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-5-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10

4101:2-5-01	Shall	505.1 Where domestic cooking appliances are installed within buildings regulated by this code and the appliances are utilized for domestic purposes, such appliances shall be provided with domestic range hoods.	3781.10
4101:2-5-01	Shall	505.5 Where domestic cooking appliances are installed within Group I-2 nursing homes, rooms or spaces and the appliances are utilized for domestic purposes, such appliances shall be provided with domestic range hoods in accordance with this section and Section 407.2.6 of the building code.	3781.10
4101:2-5-01	Shall	507.2 Exception 2 A Type II hood shall be permitted to be installed in lieu of a Type I hood over conveyor pizza ovens where grease laden vapors or smoke are generated in quantities that do not constitute a hazard.	3781.10
4101:2-6-01	Shall	262 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-6-01	Require	2 "require" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-6-01	Shall not	49 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-6-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-6-01	Shall	602.2.1.1 Exception The information technology equipment area shall be separated from other areas of the building by a minimum of a one-hour fire barrier constructed in accordance with the building code.	3781.10
4101:2-6-01	Shall	602.2.1.1 Exception The information technology equipment room shall be separated from other areas of the building and the information technology equipment area by a minimum of a one-hour fire barrier constructed in accordance with the building code.	3781.10
4101:2-6-01	Shall	607.4 Dampers equipped with fusible links, internal operators, or both shall be provided with an access door that is not less than 12 in. (305 mm) square or provided with a removable duct section in accordance with NFPA 80.	3781.10
4101:2-6-01	Shall not	607.5.2 Exception 3 Flexible air connectors shall not be prohibited in fully ducted sheet steel duct systems where the installation meets either of the following:	3781.10
4101:2-6-01	Shall not	607.5.2 Exception 3(2) The flexible air connectors shall not pass through any walls, floors or ceilings.	3781.10
4101:2-6-01	Shall not	607.5.3 Exception 4 Flexible air connectors shall not be prohibited in fully ducted sheet steel duct systems where the installation meets either of the following:	3781.10

4101:2-6-01	Shall not	607.5.3 Exception 4(2) The flexible air connectors shall not pass through any walls, floors or ceilings.	3781.10
4101:2-7-01	Shall	5 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-7-01	Shall not	1 "shall not" appearing as it does in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-7-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-8-01	Shall	152 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-8-01	Shall not	20 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-8-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-9-01	Shall	146 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-9-01	Must	1 "must" appearing as it does in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-9-01	Shall not	19 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-9-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-9-01	Shall	915.2.1.1 Engine-mounted tanks located outdoors may be located in accordance with Section 4.1.4 of NFPA 37 and shall be vented in accordance with NFPA 30.	3781.10
4101:2-9-01	Shall	915.2.1.1 Engine-mounted tanks shall be provided with adequate clearance to enable filling, maintenance, and testing, shall be safeguarded against public access, and shall be protected from impact.	3781.10
4101:2-9-01	Shall	915.2.1.1 Engine-mounted tanks shall be provided with adequate clearance to enable filling, maintenance, and testing, shall be safeguarded against public access, and shall be protected from impact.	3781.10

4101:2-9-01	Shall	915.2.1.1 Engine-mounted tanks shall be provided with adequate clearance to enable filling, maintenance, and testing, shall be safeguarded against public access, and shall be protected from impact.	3781.10
4101:2-9-01	Shall	915.2.1.2 Fuel tanks, other than engine-mounted tanks, piped to and supplying the engine shall be located, installed, and vented in accordance with the applicable sections of NFPA 37 or located, installed, and vented in accordance with NFPA 30.	3781.10
4101:2-9-01	Shall	915.2.2 Where an internal combustion engine supplied with gaseous fuel powers building service equipment, the fuel gas storage and piping system shall comply with NFPA 37 and the "International Fuel Gas Code".	3781.10
4101:2-9-01	Shall	915.3 Stationary emergency and standby power generator assemblies shall be listed in accordance with UL 2200 and shall comply with Section 2702.1 of the building code.	3781.10
4101:2-9-01	Shall	915.3 Stationary emergency and standby power generator assemblies shall be listed in accordance with UL 2200 and shall comply with Section 2702.1 of the building code.	3781.10
4101:2-10-01	Shall	96 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10, 4104.02
4101:2-10-01	Shall not	3 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10, 4104.02
4101:2-10-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-10-01	Shall	1001.1 Exception 8 Potable water heaters shall comply with the "Ohio Boiler and Pressure Vessel rules", Chapters 4101:4-1 to 4101:4-10 of the Administrative Code, when any of the following limitations are exceeded:	3781.10, 4104.02, 4104.06
4101:2-10-01	Shall	1001.2 The superintendent of the division of industrial compliance shall enforce all provisions of rules 4101:4-1-01 to 4101:4-10-01 and rules 1301:3-5-01 to 1301:3-5-10 of the Administrative Code relating to the design, construction, repair, alteration, and maintenance of boilers, pressure vessels, and potable hot water heaters not within the scope of this chapter.	3781.10, 4104.02, 4104.06
4101:2-10-01	Shall	1004.1 The boiler shall be provided with safety devices and controls as required in the applicable section of the "ASME Boiler and Pressure Vessel Code."	3781.10, 4104.02
4101:2-11-01	Shall	113 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10

4101:2-11-01	Shall not	31 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-11-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-12-01	Shall	223 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-12-01	Shall not	16 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-12-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-13-01	Shall	83 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-13-01	Shall not	13 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-13-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-13-01	Shall	1308.1 Fuel oil and diesel oil storage systems supplying and piped to building service equipment, including emergency and standby generators, shall be installed in accordance with one of the following:	3781.10, 4104.43
4101:2-13-01	Shall	1308.2 Where connected to a fuel oil or diesel oil piping system, the maximum amount of fuel oil or diesel oil storage allowed outside above ground without additional protection shall be 660 gallons (2498 L).	3781.10, 4104.43
4101:2-13-01	Shall	1308.2 The outside, above ground storage of fuel oil or diesel oil in quantities exceeding 660 gallons (2498 L) and connected to and serving building service equipment shall comply with chapter 22 of NFPA 30.	3781.10
4101:2-13-01	Shall	1308.3 Fuel oil storage inside of buildings shall comply with sections 1308.3.1 to 1308.3.5.	3781.10
4101:2-13-01	Shall	1308.3.1 One or more fuel oil or diesel oil storage tanks containing a Class II or III combustible liquid shall be permitted in a building.	3781.10
4101:2-13-01	Shall not	1308.3.1 The aggregate capacity of all such tanks shall not exceed 660 gallons (2498 L).	3781.10

4101:2-13-01	Shall	1308.3.1 Exception intro The aggregate capacity limit shall be permitted to be increased to 3,000 gallons (11 356 L) of a Class II or III liquid for storage in protected aboveground tanks listed in accordance with UL 2085 when all of the following conditions are met:	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 1 The entire 3,000 gallon (11 356 L) quantity shall be stored in protected aboveground tanks listed in accordance with UL 2085;	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 2 The 3,000 gallon (11 356 L) capacity shall be permitted to be stored in a single tank or multiple smaller tanks;	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 3 Normal and emergency venting shall be provided in accordance with NFPA 30 except that the vent capacity reduction factors shall not be allowed;	3781.10
4101:2-13-01	Shall not	1308.3.1 Exception 3 Normal and emergency venting shall be provided in accordance with NFPA 30 except that the vent capacity reduction factors shall not be allowed;	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 4 Flame arrestors or pressure vacuum breather valves shall be installed in normal vents;	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 5 Secondary containment, drainage control or diking shall be provided in accordance with section 2704.2 of the fire code;	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 6 An overfill prevention system that prevents the tank from being filled in excess of 95 percent of its capacity shall be provided for each tank.	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 6 Filling procedure information shall be available and accessible to the person filling the tanks;	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 7 The fill pipe shall be provided with a means for making a direct connection to the fuel delivery hose so that the delivery of fuel is not exposed to the open air during the filling operation;	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 8 A noncombustible fixed spill container having a capacity of not less than 5 gallons (19 L) shall be provided for each fill connection.	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 8 The spill container shall be equipped with a manual drain valve that drains into the primary tank;	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 9 Approved anti-siphon devices shall be installed in each external pipe connected to the protected above-ground tank when the pipe extends below the level of the top of the tank; and	3781.10
4101:2-13-01	Shall	1308.3.1 Exception 10 The tanks shall be located in a room protected by an automatic sprinkler system complying with Section 903.3.1.1 of the building code.	3781.10
4101:2-13-01	Shall	1308.3.2 Tanks installed in accordance with Section 1308.3 of this rule shall be used only to supply fuel oil to fuel-burning or generator equipment installed in accordance with Section 1308.3.4.	3781.10

4101:2-13-01	Shall	1308.3.2 Connections between tanks and equipment supplied by such tanks shall be made using closed piping systems.	3781.10
4101:2-13-01	Shall not	1308.3.3 The quantity of combustible liquid stored in tanks complying with Section 1308.3 of this rule shall not be counted towards the maximum allowable quantity set forth in Table 307.1(1) of the building code, and such tanks shall not be required to be located in a control area.	3781.10
4101:2-13-01	Shall not	1308.3.3 The quantity of combustible liquid stored in tanks complying with Section 1308.3 of this rule shall not be counted towards the maximum allowable quantity set forth in Table 307.1(1) of the building code, and such tanks shall not be required to be located in a control area.	3781.10
4101:2-13-01	Shall	1308.3.4: Tanks and piping systems shall be installed and separated from other uses in accordance with one of the applicable compliance paths prescribed in Section 1308.1.	3781.10, 4104.43
4101:2-13-01	Shall not	1308.3.4 Exception Protected aboveground tanks listed in accordance with UL 2085 and complying with Section 1308.3.1 shall not be required to be separated from surrounding areas.	3781.10
4101:2-13-01	Shall	1308.3.5 Tanks in basements shall be located not more than two stories below grade plane.	3781.10
4101:2-13-01	Shall	1308.4 The design, installation, registration, and inspection of regulated underground storage tanks shall be in accordance with the fire code and rules adopted by the state fire marshal and enforced by the fire official, in accordance with sections 3737.87 to 3737.89 of the Revised Code.	3781.10
4101:2-13-01	Shall	1308.4 Underground storage tanks not regulated by the state fire marshal's Bureau of Underground Storage tanks shall comply with NFPA 30.	3781.10
4101:2-13-01	Shall	1309.1 Fuel oil piping shall be tested in accordance with NFPA 31.	3781.10, 4104.43
4101:2-14-01	Shall	28 "shall" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-14-01	Shall not	5 "shall not" throughout the rule appearing as they do in the original model code document (generally accepted commercial building, fire, plumbing, mechanical, electrical, safety or other codes and standards)	3781.10
4101:2-14-01	Shall	Comment The application of the referenced standards shall be limited and as prescribed in section 102.5 of rule 4101:1-1-01 of the Administrative Code.	3781.10
4101:2-15-01	Shall	1501.1 General. This chapter lists the codes and standards that are referenced in various sections of this document. The standards are listed herein by the pro-mulgating agency of the standard, the standard identification, the effective date and the title. The application of the referenced standards shall be as specified in Section 102.5 of the building code.	3781.10