527 CMR: BOARD OF FIRE PREVENTION REGULATIONS

527 CMR 1.00: MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE

Section:

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1.01 Title.
527 CMR 1.00, as referred to as “this Code”, shall be known as the Massachusetts Comprehensive Fire Safety Code.

1.02 Purpose.
The purpose and the intent of 527 CMR 1.00 is to prescribe minimum requirements and controls to safeguard life, property and public welfare from the hazards of fire and explosion created by the storage, handling or use of substances, materials or devices, or from conditions, or materials hazardous to life, property and the public welfare as prescribed in M.G.L. Chapters 22D and 148.

1.03 Scope.
The scope of 527 CMR 1.00 includes, but is not limited to, the following in accordance with M.G.L. c. 22D and M.G.L c. 148 and as prescribed by M.G.L. c. 143 § 96:

(1) Rules and regulations for the keeping, storage, use, manufacture, sale, handling, and transportation or other disposition of the following:
(a) Gunpowder, dynamite, crude petroleum or any of its products, or explosive or flammable fluids or compounds, tablets, torpedoes or any explosives of a like nature, or;
(b) Any explosives, fireworks, firecrackers, or any substance having such properties that it may ignite, or generate flammable or explosive vapors or gases to a dangerous extent.
(2) Rules and regulations to prescribe the location, materials and construction of buildings to be used for any of the purposes provided in 527 CMR 1.03 (1).
(3) Rules and regulations to prevent or remedy any condition in or about any building, structure or other premises, or any ship or vessel which may tend to become a fire hazard or to cause a fire.
(4) Rules and regulations to provide adequate safety requirements for the protection of the public in the event of a fire in or about any building, structure or other premises or any ship or vessel. Such rules shall require that any equipment, system or construction requirement relating to fire protection of persons or property within said building or structure, be installed in accordance with such applicable requirements as of the date of installation and shall be maintained in accordance with this Code.
(5) Rules and regulations to provide for the safe storage, use, handling and manufacturing of corrosive liquids, oxidizing materials, toxic materials or poisonous gases.

1.04 Adoption by Reference.
527 CMR 1.00 adopts and incorporates, the provisions of (National Fire Protection Association) NFPA® 1-2015 edition as modified by 527 CMR 1.05.

1.05 Modifications to NFPA® 1-2015 Edition.
NFPA® 1-2015 edition is modified, on a Chapter by Chapter basis, as follows:

Chapter 1 Administration. Chapter 1 is deleted in its entirety and replace to read as follows:

1.1 General Considerations. This Code shall apply to both new and existing conditions. Unless the provisions of this Code specify that a requirement shall apply to existing occupancies, conditions or systems, an installation completed prior to the effective date of this Code shall be deemed in compliance if the installation was made in accordance with the applicable code in effect at the time of the installation and was "approved" by the AHJ. Notwithstanding the provisions of Section 1.1, if any prior installation or condition exists which constitutes an imminent danger; the AHJ may require compliance with the provisions of this Code.

Applicable Massachusetts General Law and requirements of the 780 CMR: State Building Code also referred herein as the (Building Code) and specialized codes as referenced in Chapter 2 and defined in Chapter 3 shall be adhered to in the design and construction of buildings, structures and equipment. The rules and regulations governed by Massachusetts General Law (M.G.L.) and other regulations of the Building Code or specialized codes are not enforced by the AHJ, as defined in 527 CMR 1.00, but rather the appropriate enforcement official.

1.1.2 Construction Requirements for Buildings and Structures. Unless regulated by 527 CMR 1.03 (1), or as otherwise indicated by specific language, reference or context, any provision of 527 CMR 1.00 or any standard or code referenced in 527 CMR 1.00 relative to construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal and demolition of buildings or structures or any appurtenances connected or attached to such buildings, shall not be considered a requirement of this Code, but rather a reference to the applicable provisions of the Building Code. Such reference is for the convenience of the reader and shall be subject to the jurisdiction of the appropriate Building Official.

1.1.3 Requirements of Specialized Codes. Unless otherwise indicated by language, specific reference or context, any provisions of 527 CMR 1.00 or any standard or code referenced in 527 CMR 1.00 relative to the installation, alteration, replacement or repair of any equipment or system subject to the jurisdiction of a specialized code, including, but not limited to: plumbing, electrical, sheet metal, or elevator, shall not be considered a requirement of this Code, but rather a reference to the applicable specialized code. Such reference is for the convenience of the reader and shall be subject to the jurisdiction of the appropriate specialized code official.
1.1.4 Continued Maintenance of Any Equipment, System, Construction Requirement, Specification or Method Relating to Fire Protection. Notwithstanding the provisions of 1.1.2 or 1.1.3, any equipment, system, construction requirement, specification or method relating to fire protection of persons or property within a building, structure, ship or vessel shall be properly maintained and shall continue to perform in accordance with the applicable requirements of the Building Code or applicable specialized code as of the date of such approved installation or construction.

1.3.2* Referenced Standards.
1.3.2.1 Except as provided in 1.1.2 relative to construction requirements for buildings or structures or 1.1.3, relative to requirements of specialized codes, all codes and standards referenced in 527 CMR 1.00 and listed in Chapter 2, which provide details regarding processes, methods, specifications, equipment testing and maintenance, design standards, performance, installation, or other pertinent criteria, shall be considered as part of this Code.

1.3.2.3 Nothing herein shall diminish the authority of the AHJ to determine compliance with this Code for those activities or installations, as may be otherwise granted under the authority of the provisions of M.G.L. c. 22D, c. 48, c. 148, c. 148A or other applicable provisions of Massachusetts Law.

1.3.3 Conflicts.
1.3.3.1 When a requirement differs between this Code and a referenced document, the requirement of this Code shall apply.
1.3.3.2 When a conflict between a general requirement and a specific requirement occurs, the specific requirement shall apply.
1.3.3.3 When the requirements of this Code conflict with any other applicable regulation, or ordinance, the provisions which establish the higher standard for the promotion and protection of safety and welfare shall prevail.

1.3.5 Vehicles and Marine Vessels. Vehicles and marine vessels, or other similar conveyances, when in fixed locations and occupied as buildings, as described by 11.6 of NFPA 101, Life Safety Code, shall be treated as buildings and comply with this Code.

1.3.6 Buildings and Structures.
1.3.6.1 Buildings, structures, additions, and alterations permitted for construction after the adoption of this Code shall comply with the provisions stated herein for new buildings.
1.3.6.2* Except as provided in 10.3.2, buildings in existence or permitted for construction prior to the adoption of this Code shall comply with the provisions stated herein or referenced for existing buildings.
1.3.6.3 Repairs renovations, alterations, reconstruction, change of occupancy, and additions to buildings shall conform to this Code, and the Building Code and applicable specialized codes as authorized by M.G.L. c. 143 § 96.

1.3.6.4 Newly introduced equipment, materials, processes and operations regulated by this Code shall comply with the requirements for this Code.

1.3.7 Severability. If any provision of this Code or the application thereof to any person or circumstance is held invalid, the remainder of the Code and the application of such provision to other persons or circumstances shall not be affected thereby.

1.4 Equivalencies, Alternatives, and Modifications. The provisions of this Code shall not prevent the use of equivalencies, alternatives or modifications unless specifically prohibited herein.

1.4.1 Equivalencies. Nothing in this Code is intended to prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance, effectiveness, durability, and safety to those prescribed by this Code, provided technical documentation is submitted to the AHJ in writing to demonstrate equivalency and the system, method, or device is approved for the intended purpose.

1.4.2 Alternatives. The specific requirements of this Code shall be permitted to be altered by the AHJ upon application in writing to allow alternative methods that will secure equivalent fire safety, but in no case shall the alternative afford less fire safety, in the judgment of the AHJ, which would be provided by compliance with the provisions contained in this Code.

1.4.3 Modifications. The AHJ is authorized to modify any of the provisions of this Code upon application in writing by the owner, a lessee or a duly authorized representative where there are practical difficulties in the way of carrying out the provisions of this Code, provided that the intent of the Building Code be complied with and public safety is secured.

1.4.4 Buildings with equivalency, alternatives, or modifications approved by the AHJ shall be considered as conforming with this Code.

1.4.5 Each application for an alternative system, method or device regulated by this Code shall be filed with the AHJ in writing and shall be accompanied by such evidence, letters, statements, results of tests, or other supporting information as required to justify the request. The AHJ shall keep a record of actions on such applications together with the information that supported the action, and a signed copy of the AHJ's decision shall be provided to the applicant.

1.4.6 Approval. Where allowed by this Code, the AHJ shall approve such alternative, systems, materials, or methods of design when it is substantiated that the standards of this Code are at least equaled. If, in the opinion of the AHJ, the standards of this Code shall not be equaled by the alternative requested, approval for permanent work shall be refused. Consideration shall be given to test or prototype installations.

1.4.7 Tests.

1.4.7.1 Whenever evidence of compliance with the requirements of this Code is insufficient or evidence that any material or method does not conform to the requirements of this Code or to substantiate claims for alternative, equivalent or modifications to systems, materials, or methods,
the AHJ shall be permitted to require tests for proof of compliance to be made at the expense of
the owner or his/her agent.
1.4.7.2 Test methods shall be as specified by this Code for the material in question. If appropriate
test methods are not specified in this Code, the AHJ is authorized to accept an applicable test
procedure from another recognized source.
1.4.7.3 Copies of the results of all such tests shall be retained in accordance with Section 1.11.
1.5 Units.
1.5.1 International System of Units. Metric units of measurement in this Code are in
accordance with the modernized metric system, known as the International System of Units (SI).
1.5.2 Primary and Equivalent Values. If a value for a measurement as given in this Code is
followed by an equivalent value in other units, the first stated value shall be regarded as the
requirement. A given equivalent value could be approximate.

1.6 Enforcement.
This Code shall be administered and enforced by the AHJ.

1.7 Authority.
1.7.1 Administration. The provisions of this Code shall apply without restriction, unless
specifically exempted.

1.7.3 Interpretations.
1.7.3.1 Upon a written request of any interested person the Board of Fire Prevention Regulations
may render written advisory rulings and interpretations of this Code, pursuant to the provisions
of M.G.L. c. 30A, § 8.

1.7.4 Enforcement Assistance. Police and other enforcement agencies shall have authority to
render necessary assistance in the enforcement of this Code when requested to do so by the AHJ.

1.7.5 Delegation of Authority. The AHJ may delegate to other qualified individuals such
powers as necessary for the administration and enforcement of this Code as provided in M.G.L.
c. 148.

1.7.7 Inspections.
1.7.7.1 To the full extent allowed by the provisions of M.G.L. c. 148, the AHJ shall be
authorized to inspect, at all reasonable times, any building or premises for dangerous or
hazardous conditions or materials in order to determine compliance with this Code.

1.7.7.1.1 Coordinated Inspections. In circumstances involving compliance with two or more
Massachusetts codes, including, but not limited to, the Building Code, Uniform State Plumbing
Code, Massachusetts Electrical Code (Amendments), Elevator Code and Sheet Metal Code, the
AHJ, while enforcing this Code shall, to the extent as reasonably practicable, coordinate
inspections so that owners and occupents of a building or structure shall not be subjected to visits by numerous inspectors nor multiple or conflicting orders.

1.7.1.2 Notification to Other Officials. Whenever the AHJ observes an apparent or actual violation of some provision of law, ordinance, code or bylaw not within the AHJ’s authority, the AHJ shall report the findings to the appropriate code official having jurisdiction to enforce said law, ordinance, code or bylaw.

1.7.2 The AHJ shall have authority to order, in writing, any person(s) to remove or remedy any dangerous or hazardous condition or material as provided in M.G.L. c. 148 and this Code.

1.7.3 The AHJ engaged in fire prevention and inspection work shall be authorized at all reasonable times to enter and examine any building, structure, marine vessel, vehicle, or premises for the purpose of making fire safety inspections, to the full extent allowed by the provisions of M.G.L. c. 148 and this Code.

1.7.4 Before entering, the AHJ shall obtain the consent of the occupant thereof or obtain a proper warrant authorizing entry for the purpose of inspection, except where an emergency exists, or as otherwise permitted by law.

1.7.4.1 The applicant for any permit, certificate or license issued pursuant to the provisions of this Code or M.G.L. c. 148, or any person who seeks to renew or continue to hold such permit, certificate or license, shall be deemed to have consented to the inspection, at any reasonable hour, of any documents, premises, structure, marine vessel, building or vehicle reasonably associated with said permit, license or certificate, or application or renewal thereof, in order to confirm compliance with the requirements of this Code, M.G.L. c. 148 or other related law or regulation related to such permit, license or certificate.

1.7.5 As used in 1.7.4, emergency shall mean conditions or circumstances that the AHJ knows, or has reason to believe, exist and that can constitute imminent danger.

1.7.8 Imminent Danger Conditions. Where conditions exist and are deemed to be an imminent danger by the AHJ, the AHJ shall have the authority to abate or require abatement of such conditions that are in violation of this Code or M.G.L. c. 148.

1.7.9 Interference with Enforcement. No person shall interfere or cause conditions that would interfere with an AHJ carrying out any duties or functions prescribed by this Code.

1.7.10 Impersonation. Persons shall not use a badge, uniform, or other credentials to impersonate the AHJ.

1.7.12 Plans and Specifications

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
1.7.12.1 The AHJ shall have the authority to require plans and specifications to ensure compliance with this Code and M.G.L. c. 148. Construction documents and shop drawings submitted shall be acted upon before work commences and within 30 days of the date of receipt of a completed application and construction documents unless extended by the AHJ.

1.7.13 Inspection of Construction and Installation.

1.7.13.1 The AHJ shall be notified by the person performing the work when the installation is ready for a required inspection.

1.7.13.2 Whenever any installation subject to inspection prior to use is covered or concealed without having first been inspected, the AHJ shall have the authority to require that such work be exposed for inspection.

1.7.13.3 When any construction or installation work is being performed in violation of the plans and specifications as approved by the AHJ, a written notice shall be issued to the responsible party to stop work on that portion of the work that is in violation.

1.7.13.4 The notice of violation shall identify the violation together with the Section of this Code in violation.

1.7.13.5 The AHJ may issue a stop work order at which time the work shall not continue until the violation has been corrected.

1.7.13.5.1 A stop work order, if issued, shall be incorporated with the notice of violation.

1.7.14 Certificate of Occupancy. When the Building Code requires a certificate of occupancy, the certificate of occupancy shall be issued in accordance with the Building Code.

1.7.15 Stop Work Order. The AHJ shall have the authority to order an operation, construction or use stopped when any of the following conditions exist:

(1) Work is being done contrary to provisions of this Code.

(2) Work is occurring without a permit required by Section 1.12.

(3) An imminent danger has been created.

1.7.16 Imminent Dangers and Evacuation.

1.7.16.1 Whenever the maintenance, operation, or use of any land, building, structure, material or other object, or any part thereof, including vehicles used in the transport of hazardous materials, constitutes an imminent danger or a fire or explosion hazard which is dangerous or unsafe, or a menace to the public safety (including, but not limited to, fires, explosions, hazardous material incidents, motor vehicle accidents, structural collapses, mass casualty incidents and emergency extrication incidents) and the action to be taken to eliminate such dangerous or unsafe condition which create, or tend to create, the same is not specifically provided for in this Code, and unless otherwise prohibited by law, ordinance, by-law, or
regulation, the AHJ is hereby authorized and empowered to take such action as may be necessary to abate such dangerous or unsafe conditions (directing employees of other city or town departments and agencies), including the evacuation of buildings and/or the transport of hazardous materials, the speed, routes, amounts, and hours of transport through the city, town or district shall also be regulated.

1.7.18 Public Fire Education.
1.7.18.1 The AHJ shall have the authority to develop and implement a public fire safety education program as deemed necessary for the general welfare with respect to the potential fire hazards within the jurisdiction.
1.7.18.2 The AHJ shall have the authority to ensure duly authorized public fire safety education programs or public fire safety messages are disseminated to the general public.

1.10 Fire Prevention Regulations Appeals Board.
1.10.1 Establishment and Membership of the Fire Prevention Regulations Appeals Board.
(1) Pursuant to the provisions of M.G.L. c. 22D, § 5, there shall be a Fire Prevention Regulations Appeals Board.
(2) The Appeals Board shall consist of the sixteen members of the Board of Fire Prevention Regulations, established under M.G.L c. 22D, § 4.
(3) The Chairman of the Board of Fire Prevention Regulations shall serve as the chairman of the Appeals Board.
1.10.1.1 Authority of the Fire Prevention Regulations Appeals Board. The Fire Prevention Regulations Appeals Board is authorized to conduct appeals pursuant to the provisions of M.G.L. c. 22D, § 5.
(1) Whoever is aggrieved by any act, rule, order, directive, decision or requirement of the AHJ charged with the enforcement of this Code, relative to the fire protection requirements for buildings or structures, may submit an application for an appeal to the Appeals Board within 45 days following the service of notice of such act, rule, order, decision, requirement or directive.

1.10.1.2 Matters not within the Jurisdiction of the Appeals Board. The Appeals Board does not have jurisdiction to hear appeals relating to the following matters:
(1) Matters arising out of construction or installation requirements of the Building Code, (Building Code Appeals Board, M.G.L. c. 143, § 100);
(2) Matters arising out of the enforcement of the statutory enhanced automatic sprinkler provisions of M.G.L. c. 148, Sections 26A ½, 26G, 26G½, or 26H (Automatic Sprinkler Appeals Board, M.G.L. c. 6, § 201);
(3) Matters arising out of an appeal of a determination of the municipal wiring inspector and/or involving the application of Massachusetts Electrical Code (Amendments), (Board of Electrician’s Appeal, M.G.L. c. 143, § 3P);
(4) Matters arising out the issuance of a “Non-Criminal Fire Code Violation Notice” issued under the civil enforcement provisions of M.G.L. c. 148A;
(5) Matters arising out of the enforcement of a violation of any statute, including the provisions of M.G.L. c. 148 or arising out of any Order issued by the Head of the Fire Department or the State Fire Marshal relating to the abatement of a condition that constitutes a fire or explosion hazard or which is dangerous or unsafe or a menace to public safety (M.G.L. c. 148, § 5);
(6) Administrative matters initiated by the State Fire Marshal relating to the suspension, revocation or refusal to issue any certificate of competency or user’s certificate issued by the State Fire Marshal;
(7) Matters arising out of the AHJ’s determination to suspend, revoke, issue or renew any permit based upon the exercise of discretionary function rather than a technical fire protection requirement of this Code; and
(8) Matters arising out of the enforcement of a city ordinance or town by-law or regulation promulgated or adopted by the municipality.

1.10.1.3 Means of Appeal. Application for an appeal shall be made, within 45 days following the service of notice of such act, rule, order, decision, requirement or directive which is the subject of the appeal on forms prescribed or approved by the Appeals Board.
1.10.1.3.1 Such application shall be accompanied by the required fee and include copies of all records, references, reports and other information related to the appeal.
1.10.1.3.2 An appeal shall stay all proceedings in the furtherance of the action or failure to act which is the subject of the appeal, unless the AHJ presents evidence that a stay would cause imminent peril of life or property.

1.10.1.4 Appeals Board Hearings. The Chairman of the Appeals Board shall designate three members of the Appeals Board to hold public hearings, hear testimony and take evidence.
1.10.1.4.1 The Appeals Board shall not be bound by the strict rules of evidence prevailing in courts of law or equity.
1.10.1.4.2 The chairman shall fix the time and place for hearings and a hearing shall take place not later than 60 days following the filing of an appeal, unless such time is extended by agreement with the appellant.
1.10.1.4.3 The chairman shall give at least 10 days’ notice of the time and place of the hearing to all interested parties. Any party may appear in person, by agent or by attorney at the hearing.

1.10.1.5 Appeals Board Decisions. The three members of the Appeals Board conducting the hearing shall decide the appeal and issue a written decision. Every decision shall require the concurrence of at least two of the three members and the written decision shall state findings of fact, conclusions and reasons for the decision and indicate the vote of each member participating in the decision.
1.10.1.5.1 The Appeals Board shall issue a decision or order reversing, affirming or modifying, in whole or in part, such interpretation, order or decision, or a postponement of the application thereof, within 45 days following the hearing, unless such time is extended by agreement with the appellant.
1.10.1.5.2 The Appeals Board may grant a variance from any provision of this Code and related rules and regulations in any particular case determine the suitability of alternate materials or methods of compliance and provide reasonable interpretations of this Code consistent with the purpose thereof.

1.10.1.6 Record of Appeals Board Decisions. A record of all Appeals Board decisions and of votes thereunder, properly indexed, shall be maintained in the office of the Department of Fire Services and shall be open to public inspection at all times during regular business hours.

1.11 Records and Reports.
1.11.1 A record of examinations, approvals, equivalencies, modifications and alternatives shall be maintained by the AHJ and shall be available for public inspection in accordance with provisions of the applicable Massachusetts Public Records Laws.
1.11.2 In accordance with the provisions of the applicable Massachusetts Public Records Laws the AHJ shall keep records of fire prevention inspections or investigations, including the date of inspections and a summary of violations found to exist, the date of the services of notices, and a record of the final disposition of all violations.

1.11.3 Emergency Response Records.
1.11.3.2 The fire department shall report all incident data collected in accordance with the provisions of Massachusetts General Law including M.G.L. c 6A, §18 ¾ (8) and M.G.L. 148, § 2 and 3.
1.11.4 All records shall be retained in accordance with the manner and duration required by the Massachusetts Public Records Law.

1.12 Permits and Approvals.
1.12.1 An application for permit shall be made in writing on a form acceptable by the State Fire Marshal and submitted to the applicable enforcement AHJ. Such application shall be legible and completed in its entirety.
1.12.1.2 The AHJ shall be authorized to issue permits and approvals as required by this Code.
1.12.1.3 Persons named in the permit shall comply with this Code.
1.12.2 Applications for permits shall be accompanied by such data as required by the AHJ and such fees as required by Massachusetts General Laws.
1.12.2.1 The AHJ shall review all applications submitted and issue permits as required.
1.12.2.2 If an application for a permit is rejected by the AHJ, a written notification shall be sent to the applicant as to the reasons for such rejection.
1.12.2.3 Permits for activities requiring evidence of financial responsibility by the jurisdiction shall not be issued unless proof of any required financial responsibility is furnished.

1.12.3 Conditions of Approval.
1.12.3.1 Any conditions of the approval by the AHJ of a permit shall remain with said permit, unless modified by the AHJ.
1.12.3.2 The AHJ shall be permitted to require conditions of approval to be memorialized via recording on the permit or, if relating to land or buildings, at the appropriate registry of deeds.

1.12.4 Approvals by Other Authorities.
1.12.4.1 The AHJ shall have the authority to require evidence to show that other regulatory agencies having jurisdiction over the design, construction, alteration, repair, equipment, maintenance, process, activity and relocation of structures have issued appropriate approvals.
1.12.4.2 The AHJ shall not be held responsible for enforcement of the regulations of such other regulatory agencies unless specifically mandated to enforce those agencies' regulations.

1.12.5 Misrepresentation.
1.12.5.1 Any attempt to misrepresent or otherwise deliberately or knowingly design, install, service, maintain, operate, sell, represent for sale, falsify records, reports, or applications; or other related activity in violation of the requirements prescribed by this Code shall be a violation of this Code.
1.12.5.2 Such violations shall be cause for immediate suspension or revocation of any related approvals or permits issued.
1.12.5.3 Such violations shall be subject to any other criminal or civil penalties provided by the laws or other applicable regulations of the Commonwealth of Massachusetts.

1.12.6 Permits.
1.12.6.1 A permit shall be conditioned upon the continued compliance with the requirements of this Code and shall constitute written authority issued by the AHJ to maintain, store, use, or handle materials; to conduct processes that could produce conditions hazardous to life or property; or to install equipment used in connection with such activities, or as authorized by this Code.
1.12.6.1.1 Unless specifically stated otherwise, permits required in Section 1.12.8 shall be issued by the AHJ and issued as a precondition before conducting any work or activity regulated under the provisions of this Code.
1.12.6.2 Any permit issued under this Code is in addition to, and shall not take the place of any other approval, certificate, license, or permit required by any other regulations or laws.
1.12.6.3 Where additional permits or approvals are required by other agencies, approval shall be obtained from those other agencies.
1.12.6.4 The AHJ shall have the authority to require or conduct an inspection prior to the issuance of a permit.
1.12.6.5 A permit issued under this Code shall remain valid for the period of time designated on the permit unless suspended, revoked or otherwise extended pursuant to 1.12.6.8.
1.12.6.6 The permit shall be issued to one person or business only and shall be limited to locations or purposes described in the permit.
1.12.6.7 Any change that affects any of the conditions of the permit shall require a new or amended permit.
1.12.6.8 The AHJ shall have the authority to grant an extension of the permit time period upon presentation by the permittee of a satisfactory reason for failure to start or complete the work or activity authorized by the permit.

1.12.6.9 A copy of the permit shall be posted or otherwise readily accessible at each place of operation and shall be subject to inspection as specified by the AHJ.

1.12.6.10 Any activity authorized by any permit issued under this Code shall be conducted by the permittee or the permittee’s agents or employees, in compliance with all requirements of this Code applicable thereto and in accordance with the approved plans and specifications.

1.12.6.11 No permit issued under this Code shall be interpreted to justify a violation of any provision of this Code any other applicable law or regulation.

1.12.6.12 Any addition or alteration of approved plans or specifications shall be approved in advance by the AHJ, as evidenced by the issuance of a new or amended permit.

1.12.6.13 Permits shall bear the name and signature of the AHJ or that of the AHJ’s designated representative. In addition, the permit shall indicate the following:

(1) Operation or activities for which the permit is issued;
(2) Address or location where the operation or activity is to be conducted;
(3) Name of the owner, with the address and phone number and the name of the installer, with the address and phone number, if applicable;
(4) Permit number;
(5) Period of validity of the permit;
(6) Inspection requirements and other permit conditions;
(7) Name of the agency authorizing the permit (AHJ);
(8) Date of Issuance;
(9) Quantities of materials to be kept, used or stored, as applicable;
(10) Certificate, and/or license issued under M.G.L. c. 148 § 13, as applicable;
(11) Permit conditions as determined by the AHJ.

1.12.6.14 Any application for, or acceptance of, any permit requested or issued pursuant to this Code shall constitute agreement and consent by the person making the application or accepting the permit, to allow the AHJ to enter the premises at any reasonable time to conduct such inspections or review such records as required by this Code.

1.12.7 Revocation or Suspension of Permits and Approvals.

1.12.7.1 The AHJ shall be permitted to revoke or suspend a permit or approval issued by said AHJ if any violation of this Code or of M.G.L. c. 148 is found upon inspection or if any false statements or misrepresentations have been submitted in the permit application or plans on which the permit or approval was based.

1.12.7.2 Revocation or suspension shall be constituted when the permittee is duly notified by the AHJ.

1.12.7.3 Any person who continues to engage in any permitted or approved business, operation, occupation, or uses any premises, after the permit or approval has been suspended or revoked pursuant to the provisions of this Code and before such suspended permit or approval has been reinstated or a new permit or approval is issued, shall be in violation of this Code.
1.12.8 General Requirements. A permit and an application for permit shall be required as prescribed in 1.12.8. No work or activities described in this Section shall commence without first complying with Section 1.12 and the applicable Table in 1.12.8.

1.12.8.1 General Safety with Regards to Open Air Burning, Use of a Torch, Fogging and Storage of Combustible Goods. [Chapter 10]

1.12.8.1.1 Permit holder shall be present at such burning to control the fire until it is entirely extinguished.

1.12.8.1.2 Open air burning permits required by 10.10.1, 10.10.4.1.1, and 10.10.4.1.2 shall be issued for a period not exceeding two days from the date of the permit.

1.12.8.1.3 Removal of Paint using a Torch.

1.12.8.1.3.1 Permit. A permit shall be required for the use of a torch or other flame or heat producing device for the removal of paint or the application or removal of roofing material from any building or structure. An approved fire extinguisher or an adequate water supply shall be readily available at all times.

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</tr>
<tr>
<td>Use of canine guards</td>
</tr>
<tr>
<td>Fumigation and insecticidal fogging.</td>
</tr>
</tbody>
</table>

1.12.8.2 Oil Burners and Fuel-Oil. [Chapter11]
1.12.8.2.1 Permit Requirements.
1.12.8.2.1.1 In accordance with M.G.L. c.148, § 38J, on a form approved by the State Fire Marshal, a document indicating that each fuel line is enclosed with a continuous non-metallic sleeve or is otherwise equipped with an oil safety valve, shall be submitted with the application for permit, when applicable.

1.12.8.2.1.2 Inspection.
1.12.8.2.1.2.1 If after 30 days, an inspection is not conducted, the delivery of fuel oil shall not be prohibited for lack of a permit to store.

1.12.8.2.1.3 Certificate of Completion
1.12.8.2.1.3.1 See Section 1.12.8.51 for Certificate of Completion requirements regarding oil burner installations and connections.

1.12.8.2.2 Permit Not Required.
1.12.8.2.2.1 A permit shall not be required for routine maintenance, such as the replacement of nozzles, ignition electrodes, or filters; however, a combustion performance test shall be conducted.

1.12.8.2.3 Emergency Conditions.
1.12.8.2.3.1 If an oil burner installation is made under emergency conditions, said application shall be made within 24 hours thereafter, excluding Saturdays, Sundays and holidays.

1.12.8.2.4 Fuel Oil Deliveries.
1.12.8.2.4.1 Fuel oil shall not be delivered to any storage tank unless the deliverer has knowledge that a permit has been obtained.
1.12.8.2.4.1.1 Such knowledge may be considered to consist of any of the following:
(1) Verification by the Head of the Fire Department that such a permit is in effect.
(2) Written verification from the owner or customer that the permit is either in his possession or is posted on the premises.
(3) Observation that such a permit is in the possession of the owner or customer, or is posted on the premises.

Table 1.12.8.2 Permits Required

<table>
<thead>
<tr>
<th>Chapter 11 Work/ Activity</th>
<th>Oil Burners and Fuel-Oil. Issuing Authority</th>
<th>Code Section/ MGL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation or alteration of any fuel oil burning equipment.</td>
<td>Head of Fire Department</td>
<td>Section 11.5.1.8 MGL c.148 §§ 10A; 23 and 24</td>
</tr>
<tr>
<td>Storage of fuel oil in excess of ten gallons used in connection with an oil burner.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
Installation or removal of a fuel storage tank unless provided otherwise in Chapter 66.  

Section 11.5.1.10.5(4) and (7)  

See Section 1.12.8.2

1.12.8.3 Smoke, Fire and Carbon Monoxide Protection Systems. [Chapter 13]

1.12.8.3.1 No person or entity may install any fire protection system in any new or existing building or structure without first complying with the provisions in this section and Table 1.12.8.3.

1.12.8.3.2 A fire protection system shall include any wiring, equipment and systems used to detect, suppress or control smoke, fire and carbon-monoxide or any combination thereof.

1.12.8.3.3 No permit shall be required for the replacement, in kind, of an individual device (battery, carbon monoxide detector/alarm).

1.12.8.3.4 See Chapter 42 for additional fire protection system requirements.

<table>
<thead>
<tr>
<th>Table 1.12.8.3 Permits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chapter 13</strong></td>
</tr>
<tr>
<td>Work/ Activity</td>
</tr>
</tbody>
</table>
| Carbon monoxide/Smoke alarm installations ≤ 5 dwelling units] at time of property sale or transfer. | Head of Fire Department | M.G.L. c. 148 §§ 26F and 26F 1/2 
Known as a Certificate of Compliance | Section 13.7.2 |
| Installations of carbon monoxide protection technical options. | | | |
| Impairment or disconnection of any sprinkler system, water main, hydrant, or other device used for fire protection-system including carbon monoxide detection and alarm | | M.G.L c.148 § 27A 
Section 13.7.2.2 | |
| | | See Section 1.12.8.3 | |

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1.12.8.4 Safeguarding Construction, Alteration, and Demolition Operations. [Chapter 16]

1.12.8.4.1 Permits must be obtained at least two days prior to the placement of a tar kettle on a roof.
1.12.8.4.2 See Chapter 10.10 for additional permit requirements for tar pots
1.12.8.4.3 See Chapter 41 and Table 1.12.8.23 for permit requirements for Welding, Cutting, and Other Hot Work.

<table>
<thead>
<tr>
<th>Table 1.12.8.4 Permits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chapter 16</strong></td>
</tr>
<tr>
<td><strong>Work/ Activity</strong></td>
</tr>
<tr>
<td>Torch-applied roofing operations</td>
</tr>
<tr>
<td>Placement of a tar kettle on a roof</td>
</tr>
<tr>
<td>Use of salamanders</td>
</tr>
</tbody>
</table>

1.12.8.5 Combustible Waste and Refuse. [Chapter 19]

1.12.8.5.1 A permit shall not be required for containers which are delivered to a location and removed in the course of a single business day.
1.12.8.5.2 Containers shall be marked with the name and telephone number of the company who can be reached in an emergency.

<table>
<thead>
<tr>
<th>Table 1.12.8.5 Permits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chapter 19</strong></td>
</tr>
<tr>
<td><strong>Work/ Activity</strong></td>
</tr>
<tr>
<td>Rubbish containers &gt; 6 cubic yards</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

1.12.8.6 Occupancy Fire Safety. [Chapter 20]

1.12.8.6.1 Unvented Heaters.

1.12.8.6.1.1 A copy of the manufacturer's installation/operating literature for unvented propane or natural gas-fired space heaters shall be submitted with each permit application.
1.12.8.6.1.2 Before operation of such heater, the Head of the Fire Department and the local or State Plumbing/Gas Inspector shall inspect the installation.

<table>
<thead>
<tr>
<th>Table 1.12.8.6 Permits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chapter 20</strong></td>
</tr>
<tr>
<td><strong>Work/ Activity/Location</strong></td>
</tr>
<tr>
<td>Assembly Occupancies</td>
</tr>
<tr>
<td>Food service provisions</td>
</tr>
</tbody>
</table>

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
Open flame devices and Pyrotechnics
Exposition Facilities
Storage and handling, of cellulose nitrate film
High-Piled Storage
Unvented propane or natural gas-fired space heaters

<table>
<thead>
<tr>
<th>Work/ Activity</th>
<th>Issuing Authority</th>
<th>Code Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 20.1.5.3.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section 20.1.5.5.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section 20.15.7.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section 20.15.8.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sections 20.2.4.5.1, 20.3.2.1.1, 20.8.2.6.1, 20.9.2.2.1, 20.10.2.1, 20.11.2.1</td>
<td></td>
<td>See Section 1.12.8.6</td>
</tr>
</tbody>
</table>

1.12.8.7. Chapter 21 Reserved.
1.12.8.8. Chapter 22 Reserved.

1.12.8.9 Cleanrooms. [Chapter 23]
1.12.8.9.1 See chapters 60 through 75 for permitting requirements regarding hazardous materials

Table 1.12.8.9 Permits Required

<table>
<thead>
<tr>
<th>Work/ Activity</th>
<th>Issuing Authority</th>
<th>Code Section</th>
</tr>
</thead>
</table>
| Use, storage or handling of hazardous materials     | Head of Fire Department      | Section 23.3  
|                                                    |                              | Section 61.1.2  
|                                                    |                              | Section 61.5.3.3.1  
|                                                    |                              | Section 63.1.2  
|                                                    |                              | Section 66.1.5  
|                                                    |                              | Section 69.1.2  |

1.12.8.10 Dry Cleaning. [Chapter 24]
1.12.8.10.1 See chapters 60 through 75 for permitting requirements regarding hazardous materials

Table 1.12.8.10 Permits Required

<table>
<thead>
<tr>
<th>Work/ Activity</th>
<th>Issuing Authority</th>
<th>Code Section</th>
</tr>
</thead>
</table>
| Use, storage or handling of hazardous materials     | Head of Fire Department      | Section 24.2  
|                                                    |                              | Section 61.1.2  
|                                                    |                              | Section 61.5.3.3.1  |
1.12.8.11. Chapter 25 Reserved

1.12.8.12 Laboratories Using Chemicals. [Chapter 26]
1.12.8.12.1 See chapters 60 through 75 for permitting requirements regarding hazardous materials

Table 1.12.8.12 Permits Required

<table>
<thead>
<tr>
<th>Chapter 26</th>
<th>Laboratories Using Chemicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work/Activity</td>
<td>Issuing Authority</td>
</tr>
<tr>
<td>The handling or storage of chemicals in laboratory buildings, laboratory units, and laboratory work areas whether located above or below grade</td>
<td>Head of Fire Department</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
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<td></td>
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<tr>
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<td></td>
</tr>
</tbody>
</table>

1.12.8.13. Chapter 27 Reserved
1.12.8.15. Chapter 29 Reserved

1.12.8.16 Motor Fuel Dispensing Facilities and Repair Garages. [Chapter 30]
1.12.8.16.1 See chapters 60 through 75 for permitting requirements regarding hazardous materials

Table 1.12.8.16 Permits Required

<table>
<thead>
<tr>
<th>Chapter 30</th>
<th>Motor Fuel Dispensing Facilities and Repair Garages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work/Activity</td>
<td>Issuing Authority</td>
</tr>
<tr>
<td>Use, storage or handling of hazardous materials</td>
<td>Head of Fire Department</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1.12.8.17 Forest Products. [Chapter 31]

Table 1.12.8.17 Permits Required

<table>
<thead>
<tr>
<th>Chapter 31</th>
<th>Forest Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work/Activity</td>
<td>Issuing Authority</td>
</tr>
<tr>
<td>Storage of mulch &gt; 300 cubic yards.</td>
<td>Head of Fire Department</td>
</tr>
</tbody>
</table>
1.12.8.18 Motion Picture and Television Production Studio Soundstages and Approved Production Facilities. [Chapter 32]

1.12.8.18.1 Notification.
1.12.8.18.1.1 A permit shall not be required provided notification is given to the Head of the Fire Department for production locations where 15 to 30 on-site personnel are present, and permits are not specifically required by Chapter 32.

<table>
<thead>
<tr>
<th>Table 1.12.8.18 Permits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chapter 32</strong></td>
</tr>
<tr>
<td>Soundstages and approved production facilities-For activities listed</td>
</tr>
<tr>
<td>Production locations</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

1.12.8.19. Chapter 33 Reserved
1.12.8.20. Chapter 34 Reserved
1.12.8.21. Chapter 35 Reserved

1.12.8.22 Dust Explosion and Fire Prevention. [Chapter 40]

<table>
<thead>
<tr>
<th>Table 1.12.8.22 Permits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chapter 40</strong></td>
</tr>
<tr>
<td>An operation that uses or produces combustible dust.</td>
</tr>
</tbody>
</table>

1.12.8.23 Welding, Cutting and Other Hot Work. [Chapter 41]

1.12.8.23.1 Application for a Permit.
1.12.8.23.1.1 A permit application shall specify the time and exact location of the work to be performed, the nature of the work to be done, and any special precautions to be taken during that work.
1.12.8.23.1.2 On the permit application the applicant shall provide written authorization, signed by the property owner or his agent.
1.12.8.23.2 Permit Requirements.
1.12.8.23.2.1 A single permit shall be permitted to be issued for both operation and storage.
1.12.8.23.2.2 For daily activities, an annual Hot Work permit shall be permitted if in compliance with Section 41.7.

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1.12.8.23.2.3 A permit prescribed by the Head of the Fire Department shall be required before conducting hot work processes in other than a designated area.

1.12.8.23.2.3.1 A permit prescribed by the State Fire Marshal shall be used for hot work performed in other than designated areas.

1.12.8.23.2.3.2 Before hot work operations begin in a non-designated location, a written hot work permit by the Permit Authorizing Individual (PAI) shall be required. [51B:5.4.1]

1.12.8.23.2.3.2.1 See 41.3.4.1.1.1 for sample hot work permit for permitted required areas.

1.12.8.23.3 Permits Not Required.

1.12.8.23.3.1 A Hot Work permit shall not be required by the Head of the Fire Department when hot work is conducted in approved and designated areas in accordance with Section 41.3.2.2.1.

1.12.8.23.3.1.1 See 41.5.4.4 Inspections permitted by the AHJ

1.12.8.23.3.2 A permit shall not be required when the purpose of performing hot work is necessary for required maintenance.

1.12.8.23.3.2.1 See Section 41.4 entitled sole proprietors and Individual operators.

1.12.8.23.3.3 Where an approved facility hot work permit program exists that meets the requirements of Chapter 41, the permit shall be permitted to be issued for an entire facility.

1.12.8.23.4 See Chapters 60 through 75 for permitting requirements regarding hazardous materials.

1.12.8.23.5 See Section 16.6 for permitting requirements regarding use of torch-applied roofing systems.

1.12.8.23.6 See Section 16.7 for permitting requirements regarding use of tar kettles.

Table 1.12.8.23 Permits Required

<table>
<thead>
<tr>
<th>Chapter 41 Work/Activity</th>
<th>Welding, Cutting, and Other Hot Work Issuing Authority</th>
<th>Chapter/Code Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting and welding operations</td>
<td>Head of Fire Department</td>
<td>Section 41.1.5.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Section 41.3.2.2.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Section 41.3.4.1.1.1</td>
</tr>
</tbody>
</table>

1.12.8.24 Refueling Gaseous Fuel Containers, and Systems. [Chapter 42]

1.12.8.24.1 Application for Permit.

1.12.8.24.1.1 An application for a permit shall be submitted by the person, firm or corporation responsible for the installation or connection.

1.12.8.24.2 Permit Not Required.

1.12.8.24.2.1 A permit shall not be required to make a connection in the fueling of gaseous fuel vehicles, replacement of a portable container, or the filling of a stationary container.

Table 1.12.8.24 Permits Required

<table>
<thead>
<tr>
<th>Chapter 42 Work/Activity</th>
<th>Refueling [ Gaseous Fuel Containers and Systems]</th>
</tr>
</thead>
</table>

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
1.12.8.25 Refueling Cargo Tanks, Portable Tanks or Transfer Tanks.
1.12.8.25.1 General.
1.12.8.25.1.1 All tanks shall be considered full for the purpose of this Code.
1.12.8.25.2 Cargo, Portable and Transfer Tanks.
1.12.8.25.2.1 A permit shall be required when tanks are left unattended.

1.12.8.25.3 Vehicles and Contents.
1.12.8.25.3.1 Tanks shall only be left in an area remote from buildings of habitation in such a manner required by the AHJ.
1.12.8.25.3.2 The Head of the Fire Department may assume control of the vehicle and its contents if the owner is unable or unwilling to remove the vehicle or its contents within a reasonable time.

1.12.8.25.3.3 Inspections Required.
1.12.8.25.3.3.1 Transport vehicles used in the transportation of combustible liquids shall be subject to inspection by the AHJ.

1.12.8.25.3.4 Exemption from Inspection.
1.12.8.25.3.4.1 If exempt from an inspection, a certificate of exemption shall be issued by the AHJ and carried in the transport vehicle at all times.
1.12.8.25.3.4.2 A certificate of exemption shall remain in effect provided the tank vehicle is maintained in accordance with U.S. DOT, Title 49 CFR.

1.12.8.25.3.5 Permits Not Required.
1.12.8.25.3.5.1 A permit shall not be required for gasoline or other flammable petroleum product provided it is transported in an open vehicle or in a compartment of a closed vehicle separated from the passengers, where the total quantity does not exceed 21 gallons, provided such flammable liquid is contained in approved containers and with no individual container exceeding seven gallons capacity.
1.12.8.25.3.5.2 A permit shall not be required for combustible liquids transported in any open vehicle or in the compartment of a closed vehicle separated from the passengers where the total quantity does not exceed 55 gallons, provided such combustible liquid is contained in approved containers, substantial metal drums or other similar containers.

1.12.8.25.3.6 Transportation of Combustible Liquids.
1.12.8.25.3.6.1 To transport combustible liquids, a decal shall be affixed to the upper left quadrant of the transport vehicle.
1.12.8.25.3.7 Alternate Fuels.

1.12.8.25.3.7.1 Notice of Completion and Inspection of Work.

1.12.8.25.3.7.1.1 Upon receipt of such notification of completion of the work, the AHJ shall make an inspection of the installation within a reasonable time. If the work is found to be in accordance with this Code and, if applicable, 502 CMR 5.00: Permit Requirements and Annual Inspection of Above Ground Storage Tanks or Containers of More than Ten Thousand Gallons’ Capacity, the AHJ shall issue to the owner or occupant a permit for the keeping, storage, manufacture or sale in connection therewith, except where such storage is otherwise authorized by license.

1.12.8.25.3.7.2 Certificate of Completion

1.12.8.25.3.7.2.1 See Section 1.12.8.51 for Certificate of Completion requirements regarding alternate fuel storage installations and connections.

<table>
<thead>
<tr>
<th>Chapter 42</th>
<th>Refueling [Cargo Tanks, Portable Tanks or Transfer Tanks]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work/ Activity</td>
<td>Issuing Authority</td>
</tr>
<tr>
<td>Cargo tanks, portable tanks, and transfer tanks ≤ 15,000 gallons in the aggregate.</td>
<td>Head of Fire Department</td>
</tr>
<tr>
<td>Transportation of any combustible liquid.</td>
<td>State Fire Marshal</td>
</tr>
<tr>
<td>To receive flammable and combustible liquids.</td>
<td>Head of Fire Department</td>
</tr>
<tr>
<td>For dispensing motor fuel from a tank vehicle.</td>
<td></td>
</tr>
<tr>
<td>Alternate fuels</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1.12.8.26 Refueling Marine Fueling. [Chapter 42]

1.12.8.26.1 Permit Holder. A permit holder shall comply with following:

1. (1) The permit holder of every marine fueling facility shall designate one or more persons to be an authorized marine fueling operator.

2. (2) Each marine fueling operator shall be as described in 1.12.8.26.3

3. (3) The permit holder shall keep a written record for each authorized marine fueling operator.

   a. (a) Such written record shall be maintained for a period of three years.

   b. (b) Such written records shall include the following information:

      i. (i) The name, home address, telephone number, and age;

      ii. (ii) The date and location of the training;

      iii. (iii) A summary of the training program topics;

      iv. (iv) A dated signature of the employee administering the training;

      v. (v) A dated signature from the employee receiving the training.
1.12.8.26.2 Marine Fueling Operator. The operator shall be 18 years of age or older and responsible for the oversight of the actual fueling activity conducted by the marine fueling facility and shall comply with the following:

(1) The operator shall be the permit holder or shall be an agent or employee under the direct control or supervision of said permit holder.

(2) Each current or newly designated authorized marine fueling operator shall be adequately and properly trained prior to conducting any fueling activity.

(3) Training shall be conducted at least on an annual basis and at a minimum, shall include the following areas:

(a) Familiarity of Chapter 42;
(b) The properties and hazards of flammable and combustible liquids;
(c) Handling precautions for flammable and combustible liquids;
(d) The manufacturers operating instructions for operating all fueling equipment (pumps, nozzles, controls, emergency shutoff, etc.) and related equipment;
(e) Familiarity with the operation and location of all fueling equipment and of all emergency equipment and procedures, including:
   (i) Emergency notifications (for mobile operators site by site specific);
   (ii) Evacuation procedures;
   (iii) Emergency shutoff equipment location and operation;
   (iv) Fire extinguisher locations and operations;
   (v) Location and proper operation of any extinguishing systems;
   (vi) Standby for the arrival of emergency responders.

Table 1.12.8.26 Permits Required

<table>
<thead>
<tr>
<th>Chapter 42 Activity</th>
<th>Refueling [Marine Fueling] Activity</th>
<th>Issuing Authority</th>
<th>Code Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>The dispensing, transferring of fuel at marine fueling facilities</td>
<td></td>
<td>Head of Fire Department or State Fire Marshal</td>
<td>Section 42.9.1.4</td>
</tr>
<tr>
<td>To construct or alter a new or existing marine fueling facility</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To maintain a fueling facility</td>
<td></td>
<td></td>
<td>See Section 1.12.8.26</td>
</tr>
</tbody>
</table>

1.12.8.27 Spraying, Dipping, and Coating Using Flammable or Combustible Materials.

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
1.12.8.27.1 Use Prohibited. [Chapter 43]
1.12.8.27.1.1 The use of any clear or pigmented wood finish, formulated with nitrocellulose or synthetic resins to dry by evaporation and without chemical reaction, having a flashpoint below 100°F, and having a vapor pressure not exceeding 40 psi at 100°F, including clear lacquer or sanding sealers, shall be prohibited. [MGL. c. 94, § 329]
1.12.8.27.2 See Chapters 60 through 75 for permitting requirements regarding hazardous materials.

Table 1.12.8.27 Permits Required

<table>
<thead>
<tr>
<th>Work/ Activity</th>
<th>Issuing Authority</th>
<th>Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage, use or handling of hazardous materials</td>
<td>Head of Fire Department</td>
<td>43.1.1.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See Section 1.12.8.27</td>
</tr>
</tbody>
</table>

1.12.8.28. Chapter 44 Reserved.

1.12.8.29 Combustible Fibers. [Chapter 45]
1.12.8.29.1 No permit shall be required for agricultural storage of combustible fibers.

Table 1.12.8.29 Permits Required

<table>
<thead>
<tr>
<th>Work/ Activity</th>
<th>Issuing Authority</th>
<th>Code Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>For storage or handling of combustible fibers &gt; 100 ft³ (2.8 m³)</td>
<td>Head of Fire Department</td>
<td>Section 45.1.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See Section 1.12.8.29</td>
</tr>
</tbody>
</table>

1.12.8.30. Chapter 50 Reserved

1.12.8.31 Industrial Ovens and Furnaces. [Chapter 51]

Table 1.12.8.31 Permits Required

<table>
<thead>
<tr>
<th>Work/ Activity</th>
<th>Issuing Authority</th>
<th>Code Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation and operation of an oven or furnace</td>
<td>Head of Fire Department</td>
<td>Section 51.1.2</td>
</tr>
</tbody>
</table>

1.12.8.32. Chapter 52 Reserved.
1.12.8.33. Chapter 53 Reserved.

1.12.8.34 Hazardous Material. [Chapter 60]
1.12.8.34.1 Permit Requirements.
(1) A permit holder shall apply for the renewal on an annual basis.
(2) A new permit shall be required prior to engaging in any new or modified hazardous material process activity, which results in a change to a different process category authorized by the current permit.

1.12.8.34.2 Process or Processing of any Hazardous Material at any Facility.
(1) A permit shall be required for the process or processing of any hazardous material at any facility identified in this Code as Category 2 through Category 5, as described in Chapter 60.
(2) The AHJ may require technical assistance in accordance with 1.15 to evaluate the adequacy of a Category 3 or Category 4 facility process safety conditions, programs, procedures, and practices undertaken at the facility, but only after a notice of denial has been properly served upon the person making application.

Table 1.12.8.34 Permits Required

<table>
<thead>
<tr>
<th>Chapter 60</th>
<th>Hazardous Material Work/Activity</th>
<th>Issuing Authority</th>
<th>Code Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process or Processing of any Hazardous Material in Category 2, 3, 4, and/or 5.</td>
<td>Head of Fire Department</td>
<td>Section 60.8.1.1.1</td>
<td></td>
</tr>
<tr>
<td>Crop ripening or color processing.</td>
<td>Head of Fire Department</td>
<td>Section 60.8.4 Where that process involves the storage, handling, and use of a flammable compressed gas (see Section 63.1.2).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>See Section 1.12.8.34</td>
<td>See Table 1.12.8.50</td>
<td></td>
</tr>
</tbody>
</table>

1.12.8.35 Aerosol Products. [Chapter 61]
1.12.8.35.1 Permit Requirement.
1.12.8.35.1.1 A permit shall be required based on the aggregate quantity.

1.12.8.35.2 Permit Not Required.
1.12.8.35.2.1 A permit shall not be required for level 1 aerosol products.

Table 1.12.8.35 Permits Required

<table>
<thead>
<tr>
<th>Chapter 61</th>
<th>Aerosol Products</th>
<th>Issuing Authority</th>
<th>Code Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage &gt; 500 lbs.</td>
<td>Head of Fire Department</td>
<td>Section 61.1.2</td>
<td></td>
</tr>
</tbody>
</table>
1.12.8.36. Chapter 62 Reserved.

1.12.8.37 Compressed Gases and Cryogenic Fluids. [Chapter 63]
1.12.8.37.1 Permits shall be required in accordance with Tables 1.12.8.37(a), (b) and (c).
1.12.8.37.2 See Chapters 41, 42, 60, 63, and 69 for additional requirements and exceptions.

<table>
<thead>
<tr>
<th>Table 1.12.8.37 (a) Permits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Work/ Activity</strong></td>
</tr>
<tr>
<td>Storage of compressed gases</td>
</tr>
<tr>
<td>Inside of a building/ Outside of a building</td>
</tr>
</tbody>
</table>

(Also see Table 1.12.8.50)
See Tables 1.12.8.37(b) and (c)

<table>
<thead>
<tr>
<th>Table 1.12.8.37(b) Permit Amounts for Compressed Gases</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of Gas</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Corrosive</td>
</tr>
<tr>
<td>Flammable</td>
</tr>
<tr>
<td>Highly toxic</td>
</tr>
<tr>
<td>Inert and simple asphyxiant</td>
</tr>
<tr>
<td>Oxidizing (including oxygen)</td>
</tr>
<tr>
<td>Pyrophoric</td>
</tr>
<tr>
<td>Toxic</td>
</tr>
<tr>
<td>Unstable (reactive)</td>
</tr>
</tbody>
</table>

*A cubic feet measured at normal temperature and pressure.

<table>
<thead>
<tr>
<th>Table 1.12.8.37(c) Permit Amounts for Cryogens</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of Cryogen</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Corrosive</td>
</tr>
<tr>
<td>Flammable</td>
</tr>
<tr>
<td>Toxic/highly toxic</td>
</tr>
</tbody>
</table>

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1.12.8.38. Chapter 64 Reserved.

1.12.8.39 Blasting, Explosives, Fireworks, and Model Rocketry. [Chapter 65]

1.12.8.39.1 Explosives and Blasting.

1.12.8.39.1.1 Permit Requirements. Compliance with the following shall be required:

(1) For the purpose of permitting, the capacity of a storage magazine, in pounds, shall be the maximum constructed storage capacity of the magazine as reported to the Alcohol Tobacco and Firearms (ATF).

(2) An application for permit to conduct a blasting operation shall include the submittal of an Explosives User’s Certificate and a Certificate of Competency.

(3) A permit to detonate explosives shall not be issued unless the person holds a valid certificate and a Dig-Safe number has been obtained in accordance with M.G.L. c. 82, § 40.

(4) Such permit shall remain in effect for a minimum of 30 days, unless extended, suspended or revoked.

(5) For deliveries of explosive materials to any magazine, building, or structure shall be in accordance with M.G.L. c. 148, § 12.

1.12.8.39.1.1.1 Sale or Transfer. Compliance with the following shall be required for permits:

(1) The transferee shall immediately apply for a new permit for the magazine, building or structure.

(2) Any owner shall notify the State Fire Marshal immediately of the sale or transfer of a magazine, building or structure. The owner shall remove the permit number from the magazine, building or structure upon sale or transfer.

1.12.8.39.1.1.2 Application to Manufacture.

1.12.8.39.1.1.2.1 Applicants for a permit to manufacture explosives shall submit proof of license to manufacture explosives materials issued in accordance with 27 CFR Part 55, and a license and registration, as applicable, to keep, store, manufacture or sell explosive material, issued in accordance with M.G.L c. 148, § 13 with an application for a permit.

1.12.8.39.1.1.3 Plans.

1.12.8.39.1.1.3.1 A plan drawn to scale shall be required to be submitted with the application for permit showing the arrangement of the various buildings and magazines of the manufactory and the egress therefrom, their relative location to other buildings and property lines, and shall clearly indicate the following:

(1) The location of the manufactory;

(2) The name of the owner and/or occupant;

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(3) The kind and maximum quantities of the explosives, raw materials, and finished products, and the manner in which they are to be kept or stored;

(4) The nature of the work to be carried on in each building.

1.12.8.39.1.1.4 Permits Not Required. Permits shall not be required for the following:

(1) For smokeless propellants displayed in commercial establishments intended for sale and not exceeding 25 lbs. and stored in original manufacturer’s containers of one lb. maximum capacity.

(2) Small arms ammunition, primers, smokeless propellants and black powder stored in original containers and stored in a locked cabinet, closet or box when not in use as provided in Section 1.12.8.50. Small arms ammunition, as used here, shall mean any shotgun, rifle, or pistol cartridge and any cartridge or propellant actuated devices, excluding military ammunition containing bursting charges or incendiary, tracer, spotting, or pyrotechnic projectiles.

1.12.8.39.1.1.5 Notification.

1.12.8.39.1.1.5.1 Each day any blasting operations are to be performed, notification shall be given at least two hours prior to such operations, if required by the Head of the Fire Department. Failure to notify will be cause for revocation of the permit.

1.12.8.39.1.1.5.2 The Head of the Fire Department shall make a written report to the State Fire Marshal stating the details of any incident resulting in any injury to persons or property during an activity.

1.12.8.39.2 Fireworks.

1.12.8.39.2.1 Permit Requirements. The following permit provisions shall be complied with:

(1) An application for permit has been submitted and shall include the submittal of a fireworks user’s certificate and a certificate of competency.

(2) The quantity and description of materials to be used shall be listed on the permit application.

1.12.8.39.2.2 Displays.

(1) Applications shall be submitted in writing at least 20 days in advance of a display unless waived by the Head of the Fire Department.

(2) Upon receipt of an application for fireworks the Head of the Fire Department shall make or cause to be made an investigation of the pertinent facts set forth in the application and a physical inspection of the display grounds for the purpose of determining compliance with the provisions of this Code.

(3) These requirements may be waived if the same display has been witnessed at similar separate locations.

(4) Upon completion of such investigation and inspection for fireworks, but no later than five days after receipt of said application, the Head of the Fire Department shall transmit one copy of said application to the State Fire Marshal and one copy to the applicant with his endorsement thereon in compliance with provisions of law, or his reason for withholding such endorsement.
(5) Denial of a permit application for the use of special effects [fireworks] for just cause shall be
determined by the Head of the Fire Department within a maximum of 24 hours after
witnessing the preliminary display, and the applicant shall be so notified in writing within the
next 24 hours with the reasons for such denial detailed.

(6) The Head of the Fire Department shall notify the State Fire Marshal of substitutions of
certificate holders within two working days following the display.

(7) The applicant for the special effects [fireworks] permit shall demonstrate the fireworks
display in the presence of the Head of the Fire Department or his designees at least four hours
before the performance at the proposed location of the performance. Notice of the
demonstration shall be given to the Head of the Fire Department at least four days in advance
documenting the date and time of such demonstration.

1.12.8.39.2.3 Permit Not Required.

1.12.8.39.2.3.1 A permit shall not be required for the transporting [interstate] of such fireworks
or pyrotechnic materials if it is in accordance with U.S. DOT, Title 49CFR.

1.12.8.39.2.4 Cannon Mortar.

1.12.8.39.2.4.1 Permits Requirements.

1.12.8.39.2.4.1.1 A permit for the supervision of the firing of a cannon shall not be issued unless
the person holds a valid certificate.

1.12.8.39.2.4.3 Application.

(1) Applications shall be submitted where the supervised firing is to take place not less than 15
days in advance of firing date, and shall state whether blank-fire or live-fire is utilized.

(2) Submission of this application is an assurance that the cannons to be fired will be inspected
by the competent operator and meets all safety requirements prior to firing.

1.12.8.39.2.5 Permits Not Required.

1.12.8.39.2.5.1 Persons holding a Certificate of Competency for cannons shall be permitted to
store less than 50 lbs. of black powder.

<table>
<thead>
<tr>
<th>Table 1.12.8.39 Permits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 65</td>
</tr>
<tr>
<td>Work/ Activity</td>
</tr>
<tr>
<td>Black Powder/ Blasting/ Explosives/ Model Rocketry/ Pyrotechnics/ Cannons/ Flame Effects</td>
</tr>
</tbody>
</table>

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purposes or a substitute for the official document that is only available at the
Massachusetts Secretary of State Office.
### Display of Fireworks
Supervision of the use of explosives, fireworks and cannon mortar.

<table>
<thead>
<tr>
<th>Action</th>
<th>Responsible Party</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage and manufacturing of fireworks</td>
<td>State Fire Marshal</td>
<td>Section 65.2.3</td>
</tr>
<tr>
<td>A vehicle carrying explosive materials left unattended and parked in an authorized area</td>
<td>Head of Fire Department</td>
<td>Section 65.3.3</td>
</tr>
<tr>
<td>Pyrotechnics before a proximate audience</td>
<td></td>
<td>Section 65.4.1.1</td>
</tr>
<tr>
<td>Flame effects before an audience</td>
<td></td>
<td>Section 65.4.2</td>
</tr>
<tr>
<td>Fireworks manufacturing</td>
<td>State Fire Marshal</td>
<td>Section 65.5.2</td>
</tr>
<tr>
<td>Model rocketry including storage of solid propellant model rocket motors, reloading kits, or motor components &gt; 50 lbs. (23 kg) net weight at a residence</td>
<td>Head of Fire Department</td>
<td>Section 65.6.1</td>
</tr>
<tr>
<td>Explosives including manufacturing and storage of explosive materials</td>
<td>State Fire Marshal</td>
<td>Section 65.9.2.1</td>
</tr>
<tr>
<td>Blasting</td>
<td>State Fire Marshal</td>
<td>M.G.L. c. 148, § 12</td>
</tr>
<tr>
<td>Keeping and the storage of explosives</td>
<td>State Fire Marshal</td>
<td>M.G.L. c. 148, § 13</td>
</tr>
<tr>
<td>Transportation [Intrastate]</td>
<td>State Fire Marshal and Head of fire Department</td>
<td>Section 65.9.2.1</td>
</tr>
<tr>
<td>Storage of in any magazine, building or structure.</td>
<td>State Fire Marshal</td>
<td>M.G.L. c. 148, § 13</td>
</tr>
<tr>
<td>Delivery of fireworks to authorized personnel</td>
<td>Head of Fire Department</td>
<td>Section 65.9.6.3</td>
</tr>
<tr>
<td>Cannon or Mortar Firing</td>
<td></td>
<td>See Section 1.12.8.39</td>
</tr>
</tbody>
</table>

### Section 1.12.8.40 Flammable and Combustible Liquids. [Chapter 66]

1. **1.12.8.40.1 Permit Requirement.**
2. **1.12.8.40.1.1 Transport a Tank to a Tank Yard.**
3. **1.12.8.40.1.1.1** To transport a tank to an approved tank yard, the person requesting the permit shall provide the permit-granting authority (Head of the Fire Department) with notification of the designated site of disposition.

4. **1.12.8.40.1.1.2** Receipt of Delivery.
5. **1.12.8.40.1.1.2.1** Any person granted a permit to remove an installed tank shall, within 72 hours, provide a receipt for delivery of said tank to the site designated on the permit.

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**1.12.8.40.1.2 Inspection of Tanks.** The Head of the Fire Department shall periodically inspect existing above ground tank installations for safety, and if he determines that the installation or operation constitutes a hazard, he shall require unsafe tanks to be removed from service.

**1.12.8.40.1.3 Removal of Tanks and Underground Piping.**

**1.12.8.40.1.3.1** Within 24 hours after the removal of an underground tank and underground piping, the owner shall acquire a measurement for the presence of a release of oil or hazardous materials to the environment where contamination is most likely to be present on the site and, if requested, submit such documented measurements to the AHJ.

**1.12.8.40.1.3.2** If contamination is found, the owner shall immediately notify the Head of the Fire Department as well as the Department of Environmental Protection.

**1.12.8.40.2 Abandoned Tanks and Piping.**

**1.12.8.40.2.1** Abandoned tanks and piping shall be removed.

**1.12.8.40.2.2** Abandoned, as used here, means any tank and piping without use, either filling or draw off for a continuous period:

1. Any tank ≤ 10,000 gallons for a continuous period in excess of 12 months.
2. Any above ground storage tank > 10,000 gallons for a continuous period in excess of 60 months and in compliance with 502 CMR 5: Permit Requirements and Annual Inspection of Above Ground Storage Tanks or Containers of More than Ten Thousand Gallons’ Capacity.

<table>
<thead>
<tr>
<th>Table 1.12.8.40 Permits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chapters 66</strong></td>
</tr>
<tr>
<td>Construction, maintenance or use of any aboveground storage tank &gt; 10,000 gallons capacity, in aggregate</td>
</tr>
<tr>
<td>To keep, store, manufacture, handle flammables or combustible liquids</td>
</tr>
<tr>
<td>Installation, maintenance, and storage of waste oil storage tanks</td>
</tr>
<tr>
<td>Storage of alcohol based hand rub preparations &gt; ten gallons</td>
</tr>
<tr>
<td>Removal of tanks and underground piping</td>
</tr>
<tr>
<td>Abandoned tanks</td>
</tr>
</tbody>
</table>

**1.12.8.41 Flammable Solids. [Chapter 67]**
Table 1.12.8.41 Permits Required

<table>
<thead>
<tr>
<th>Chapter 67</th>
<th>Flammable Solids</th>
<th>Code Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work/ Activity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage of Flammable solids</td>
<td>Head of Fire Department</td>
<td>Section 67.1.2</td>
</tr>
</tbody>
</table>

1.12.8.42. Chapter 68 Reserved.

1.12.8.43 Liquid Petroleum Gases and Liquefied Natural Gas. [Chapter 69]

1.12.8.43.1 Application for a Permit.

1.12.8.43.1.1 An application for a permit shall be submitted by the person, firm or corporation who will make the installation or connection to an LP-gas storage container, in the name of the owner or occupant of the premises.

1.12.8.43.1.2 Notice of Completion and Inspection of Work.

1.12.8.43.1.2.1 Upon receipt of notification of completion of the work, the AHJ shall make an inspection of the installation within a reasonable time. If same is found to be in accordance with Chapter 69 and if applicable 502 CMR 5.00: Permit Requirements and Annual Inspection of Above Ground Storage Tanks or Containers of More than Ten Thousand Gallons’ Capacity, the AHJ shall issue to the owner or occupant a permit for the keeping, storage, manufacture or sale of LP-gas in connection therewith, except where such storage is otherwise authorized by license.

1.12.8.43.1.2.2 Violation.

1.12.8.43.1.2.2.1 If such installation is found not to be in accordance with Chapter 69, the permit shall be withheld and shall not be issued until the proper corrections have been made as directed, by written notice if requested, within a reasonably specified time and prior to any LP-gas being stored in the container(s).

1.12.8.43.1.2.2.2 Permits for the storage are considered null and void if such containers are considered abandoned. Where containers are abandoned they shall be removed, as provided in Table 1.12.8.43. If permitted by the AHJ, such container may be reused in accordance with 1.12.8.43.1.1.

1.12.8.43.1.3 Certificate of Completion

1.12.8.43.1.3.1 See Section 1.12.8.51 for Certificate of Completion requirements regarding LP-gas storage installations and connections.

1.12.8.43.2 Permits Not Required.

1.12.8.43.2.1 No permit shall be required to make a connection in the replacement of a portable container, or the filling of a stationary container.
### Table 1.12.8.43 Permits Required

<table>
<thead>
<tr>
<th>Chapter 69</th>
<th>Liquid Petroleum Gases and Liquefied Natural Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work/Activity</td>
<td>Issuing Authority</td>
</tr>
<tr>
<td>Storage, use and handling and the installation or modification of stationary installations.</td>
<td>Head of Fire Department</td>
</tr>
<tr>
<td>Keeping, removal, storage or use of LP-gas &gt;42 lbs aggregate capacity.</td>
<td></td>
</tr>
</tbody>
</table>

1.12.8.44. Chapter 70 Reserved  
1.12.8.45. Chapter 71 Reserved  
1.12.8.46. Chapter 72 Reserved  
1.12.8.47. Chapter 73 Reserved

1.12.8.48 Ammonium Nitrate.  
1.12.8.48.1 If applicable, permits shall comply with the requirements of Chapter 65.

1.12.8.49. Chapter 75 Reserved.

1.12.8.50 Quantities, Permits and License Requirements.  
1.12.8.50.1 The activities and aggregate quantities listed in Table 1.12.8.50 shall be used in determining permit and/or license thresholds.  
1.12.8.50.2 All tanks, containers, vessels and transport vehicles are to be considered full for the purpose of permitting under this Code and under M.G.L. c. 148, § 13.  
1.12.8.50.3 This section shall not apply to Class II and III liquids that are not heated to or above their flash points and:

1. (1) That have no fire point when tested by ASTM D 92, *Standard Test Method for Flash and Fire Points by Cleveland Open Cup*, up to the boiling point of the liquid or up to a temperature at which the sample being tested shows an obvious physical change, or  
(2) That are in a water-miscible solution or in dispersion with a water and inert (noncombustible) solids content of more than 80% by weight, which do not sustain combustion when tested using the “Method of Testing for Sustained Combustibility”, per 49 CFR 173, Appendix H, or the UN Recommendations on the Transport of Dangerous Goods.  
1.12.8.50.4 If a license is required based on the limits set forth in Table 1.12.8.50, it shall be issued in accordance with M.G.L. c.148 § 13.  
1.12.8.50.5 A permit shall be obtained in accordance with Table 1.12.8.1 through Table 1.12.8.50 as applicable.  
1.12.8.50.6 When storing more than one class of liquid or other materials named in Table 1.12.8.50, a license shall only be required for the individual class or materials, which exceed the amounts listed.  
1.12.8.50.7 Explosive material classified as Division 1.5 and 1.6 shall not be regulated as an explosive in determining capacities subject to license requirements of M.G.L c. 148, § 13.
### Table 1.12.8.50 Permit and/or License Thresholds

<table>
<thead>
<tr>
<th>Materials</th>
<th>Quantities</th>
<th>Permit</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I liquids</td>
<td>&lt; 793 gallons*</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 793 gallons</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Note. No permit needed for storing less than 7 gallons of gasoline in one or more approved containers when stored in any building not used for habitation nor frequented by the public. Gasoline may be used, kept, or stored in any building not used for habitation nor frequented by the public, ≤ 7 gallons and provided the gasoline is stored in one or more approved containers without a permit. Note: See alcohol based hand rub Table 1.12.8.1. Note: no permit or license needed when stored in containers of 60 gallons capacity or less or in portable tanks over 60 gallons capacity not intended for fixed use, including intermediate bulk containers (IBCs) designed for mechanical handling.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class I liquids (in fixed storage containers)</td>
<td>&lt;10,000 gallons**</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>&gt; 10,000 gallons</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td><strong>Note: no permit or license needed for</strong> storage tanks having a liquid capacity that exceeds 60 gallons capacity, intended for fixed installation and not used for processing.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class II liquids</td>
<td>≤ 10,000 gallons</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 10,000 gallons</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Class IIIA liquids</td>
<td>&lt;10,000 gallons</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 10,000 gallons</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Class IIIB liquids</td>
<td>&lt;10,000 gallons</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 10,000 gallons</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Flammable Solids</td>
<td>&lt; 100 lbs.</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 100 lbs.</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Flammable gases (within a building)</td>
<td>&lt;3,000 cubic feet</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 3,000 cubic feet</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Flammable gases (outside a building)</td>
<td>&lt;10,000 cubic feet</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 10,000 cubic feet</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>
### Materials

<table>
<thead>
<tr>
<th>Materials</th>
<th>Quantities</th>
<th>Permit</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel oil that may be kept for use in a building or other structure.</td>
<td>&lt;10,000 gallons of light or of heavy</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 10,000 gallons of light or of heavy</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Small arms ammunition of rim fire ammunition [private use]</td>
<td>&lt; 10,000 rounds</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥10,000- 30,000 rounds</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>&gt; 30,000 rounds</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Small arms ammunition of center fire ammunition. [private use]</td>
<td>&lt; 10,000 rounds</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 10,000- 50,000 rounds</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>&gt; 50,000 rounds</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Small arms ammunition of shotgun ammunition. [private use]</td>
<td>&lt; 5,000 rounds</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 5,000 rounds- 50,000 rounds</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>&gt; 50,000 rounds</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Small arms ammunition primers [private use]</td>
<td>&lt; 10,000 caps or other small arms primers</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 10,000 caps or other small arms primers</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Small arms ammunition primers [commercial use]</td>
<td>&lt; 100,000 caps or other small arms primers caps or other small arms primers</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 100,000 caps or other small arms primers caps or other small arms primers</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Smokeless propellants [private and commercial]</td>
<td>&lt; 16 lbs.</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Note: Persons under 18 years of age may not keep or store smokeless propellants.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note: Not more than two pounds of such propellant shall be stored in a multiple family dwelling or a building of public access.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smokeless propellants [private ]</td>
<td>≥ 16 lbs. through 47-lbs</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Smokeless propellants [commercial]</td>
<td>&gt; 48 lbs.</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>≥25 –lbs to &lt; 99 lbs.</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥100 lbs.</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Black powder [private and commercial]</td>
<td>&lt; 2 lbs.</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Note: Persons under 18 years of age may not keep or store any amount of black powder.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black powder [private ]</td>
<td>&lt; 5 lbs.</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Black powder [commercial]</td>
<td>≥5 lbs.</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>See Section 1.12.8.39.2.5.1 for permit exemption individual.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special industrial explosive devices</td>
<td>&lt; 50 lbs. net weight of explosives</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

*This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.*
<table>
<thead>
<tr>
<th>Materials</th>
<th>Quantities</th>
<th>Permit</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosive material</td>
<td>≥ 50 lbs. net weight of explosives</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Note: Fireworks can be stored up to 30 days without a land license.</td>
<td>classified Division 1.1 - 1.6</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>LP-Gas.</td>
<td>&lt; 42lbs. [10 gallons]</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>≥ 42 lbs. [10-gallons]</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>&gt;2,000 gallons of LP-Gas in the aggregate</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Flammable or class II combustible liquids unattended within cargo tanks,</td>
<td>≤15,000 gallons in the aggregate</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>portable tanks or transfer tanks on a parcel of land.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This shall not apply to parcels of land permitted by the Head of the Fire</td>
<td>&gt;15,000 gallons in the aggregate</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Department prior to September 1, 2008.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1.12.8.51 Certificates of Completion. A certificate of completion shall be filed as provided in Table 1.12.8.51.

1.12.8.51.1 A person making the installation or connection of an oil burner, alternate fuel installation, or LP gas installation shall within 72 hours (excluding Saturday, Sunday and holidays) after test-firing the burner, file such certificate of completion.

1.12.8.51.2 Inspection. Upon receipt of a certificate of completion, the Head of the Fire Department shall make an inspection of the installation within a reasonable time and, if same is found to be in accordance with this Code, the AHJ shall issue to the owner or occupant an applicable permit.

Table 1.12.8.51 Certificates Required for Permit

<table>
<thead>
<tr>
<th>Chapters 11, 42, 69</th>
<th>Certificates of Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Oil Burner Technician [Chapter 11]</td>
<td>Shall certify in writing on a form approved by the State Fire Marshal to the Head of the Fire Department that the work has been completed, and in conformity with the requirements of this Code.</td>
</tr>
<tr>
<td>Alternate Fuels [Chapter 42]</td>
<td>Shall certify in writing on a form approved by the State Fire Marshal to the Head of the Fire Department that the work has been completed, and in conformity with the requirements of this Code.</td>
</tr>
<tr>
<td>LP-gas [Chapter 69]</td>
<td></td>
</tr>
</tbody>
</table>
Upon completion of an installation or connection the person, firm or corporation having made the installation or connection:

| Shall certify in writing on a form approved by the State Fire Marshal to the Head of the Fire Department that the work has been completed, and in conformity with the requirements of this Code. |

See Section 1.12.8.51

1.13 Certificates.

1.13.1 Authorization. The State Fire Marshal shall have the authority to require certificates and collect fees for individuals or companies performing any of the following activities:

1. Sale, manufacture, possession or use of explosive materials, blasting operations, fireworks displays, storage of fireworks, use of pyrotechnics or special effects before a proximate audience; **Chapter 65**

2. Inspection, servicing or recharging of portable fire extinguishers; **Chapter 13**

3. Installation, servicing or recharging of fixed fire extinguishing systems; **Chapter 13**

4. Cleaning and inspection of commercial cooking operations; **Chapter 50**

5. Operating self service gas stations; **Chapter 42**

6. Operating marine fueling facilities and mobile marine fueling vehicles; **Chapter 42**

7. Transportation of any combustible liquid. **Chapter 42**

8. Crowd management services. **Chapter 20**

9. Activities related to the operation and firing of muzzle-loading cannons. **Chapter 65**

1.13.1.1 No person shall conduct a business or engage in the work or activity prescribed in **Section 1.13** unless the appropriate certificate(s) prescribed in Sections 1.13.5 through 1.13.11 have been issued and that such certificate is not expired, suspended, revoked, or fee not paid.

1.13.1.2 The following provisions shall apply to each certificate issued by the State Fire Marshal:

1. Certificates shall be issued in such form as prescribed by the State Fire Marshal;

2. Certificates shall not be transferable;

3. Certificates shall be issued for the period of time as indicated on the certificate;

4. Address change shall be reported in writing to the State Fire Marshal’s Office within 14 days of such change to maintain validity of the affected certificate;

5. Certificate shall not be issued to anyone under 18 years of age;

6. Any individual or company to whom a certificate has been granted shall, upon request, produce and show proper identification and the certificate to the AHJ or anyone for whom that individual or facility seeks to render services;

7. Certificates shall not be altered;

8. Any evidence of alteration of any certificate shall render certificate invalid. Altered certificates shall be surrendered to the State Fire Marshal or his designee;

9. Any insurance company providing coverage shall be licensed in the Commonwealth of Massachusetts by the Commissioner of Insurance.

1.13.2 Certificates Required by the State Fire Marshal. The following certificates shall be required and issued by the State Fire Marshal:

1. **Certificate of Competency (CC).** Issued to a person, in the individual’s name, authorizing the person named in the certificate to perform an activity prescribed **Section 1.13**.
(a) A valid CC shall be carried on the person at all times.

(2) **Certificate of Registration (CR).** Issued to a person, firm, company or other legal entity authorizing establishment, operation, and advertising of a business in the name stated on the certificate that performs an activity prescribed in Section 1.13.

(a) A CR shall be issued for each specific location of business activity.

(b) The holder of a CR shall not entitle the holder individually to carry out or execute the stated activity.

(c) The holder of a CR shall only advertise in the name as it is stated on the CR. Any sign, listing, or advertisement of the business shall display the certificate number.

(d) The holder of a CR shall report annually the name, address, and CC number of each certified person in his employ, in a manner acceptable to the State Fire Marshal.

(e) Every business issued a CR shall be properly equipped to perform the act or acts as permitted by the CR.

(f) Each CR shall be identified by type and shall bear an identifying number delineating as MA-CR-(number), the "MA" indicating it is a Massachusetts certificate.

(g) The Head of the Fire Department shall be notified in writing by the business conducting any service for which a certificate is required, within 48 hours of any deficiencies found and within 48 hours of the completion of the work to bring the system into compliance

(3) **User Certificate (UC).** Issued to a person, firm, company or other legal entity authorizing establishment and operation of a business in a name other than the name stated on the certificate, that performs an activity prescribed in Section 1.13.

(a) A UC shall be issued to each company, firm, corporation, or other legal entity with a place of business.

(b) Additional certificates shall be required to be issued contingent upon multiple place of business locations.

(c) The holder of a UC shall not entitle the holder individually to carry out or execute the stated activity.

1.13.3 Application for Certificate.

1.13.3.1 Applications shall be made in writing, complete and legible, with the applicable fee, submitted to the State Fire Marshal.

1.13.3.2 The State Fire Marshal or his designee shall review every application for a certificate.

1.13.3.3 Application fees are non-refundable.

1.13.3.4 Examination

1.13.3.4.1 The State Fire Marshal or his designee shall administer a written exam that measures the applicant’s ability, knowledge and skill level.

1.13.3.4.2 The State Fire Marshal shall be permitted to allow an applicant to submit test results from an examination given by a third party certification entity, taken within two years of the date of application.

1.13.3.4.2.1 The State Fire Marshal or his designees shall determine if said test measures the applicant’s ability, knowledge and skill level in a manner equivalent to or greater than, the test administered by the State Fire Marshal.
1.13.3.4.2.2 The State Fire Marshal shall be permitted to establish other examination criteria based on other laws and regulations.

1.13.3.4.3 The State Fire Marshal or his designee shall conduct an inspection to determine that the applicant possesses the required equipment for the type of certificate sought. A reasonable opportunity shall be given to correct any deficiencies discovered by the inspection before the issuance of the certificate.

1.13.3.5 Incomplete Applications. When the State Fire Marshal or his designee determines that an application to receive a certificate is incomplete, inadequate, or does not otherwise comply with the provisions of this Code, policy, or any other applicable law, the State Fire Marshal shall refuse to issue said certificate. If the refusal is based on the applicant’s inability to pass an examination given to determine competency, the applicant may re-apply in accordance with the policy of the State Fire Marshal.

1.13.3.6 Applicants.
(1) Applicants shall meet the eligibility criteria for the applicable certificate as established by the State Fire Marshal and provide documentation of knowledge and experience particular to the profession as required on the application for certificate.
(2) Applicants applying for a certificate issued under Section 1.13 shall furnish such documents or other evidence as prescribed by the State Fire Marshal, as a condition to the issuance of such certificate.

1.13.3.7 Renewal of Certificate.
1.13.3.7.1 Unless stated otherwise, a certificate may be renewed upon written request of the holder, provided it is not expired, suspended, or revoked by the State Fire Marshal.
1.13.3.7.2 Renewal applications shall be accompanied by the appropriate fee and shall be submitted at least one month in advance of the expiration date, or as otherwise required by the State Fire Marshal.
1.13.3.7.3 Applicants submitting a renewal application shall meet the eligibility criteria for the applicable certificate as established by the State Fire Marshal.
1.13.3.7.4 Certificates shall expire as indicated in Table 1.13.12.

1.13.4 Revocation or Suspension of Certificates issued by the State Fire Marshal.
1.13.4.1 The State Fire Marshal may revoke or suspend any certificate for failing to comply with any provision of this Code, M.G.L. c. 148, or if any misrepresentations are submitted in the application on which the issuance was based.
1.13.4.1.1 Such revocation or suspension shall, where required under the provisions of M.G.L. c. 30A, be effective after the certificate holder has been given adequate notice and an opportunity for a hearing.
1.13.4.1.2 Any notice issued by the State Fire Marshal under this Code, shall be deemed delivered and received by said holder, if the notification is sent by certified mail, return receipt requested, to the last known address of said holder, according to the records of the State Fire Marshal at the time of such mailing.
1.13.4.2 Instances Involving an Immediate Threat to Public Safety.
1.13.4.2.1 The State Fire Marshal may suspend or revoke, prior to a hearing, any certificate, or any rights and privileges granted thereby, issued under this Code or M.G.L. c. 148, whenever the holder thereof has committed a violation of any law, ordinance or by-law relating to the subject matter of M.G.L. c. 148, or any provision of this Code, the nature of which would give the State Fire Marshal reason to believe that the continued operation by such holder is and will be so seriously improper as to constitute an immediate threat to the public safety.
1.13.4.2.2 Upon such suspension or revocation, the State Fire Marshal shall forthwith send written notice thereof to the holder. Such notice shall specify the time and place of the violation.
1.13.4.2.3 The State Fire Marshal or his designee may order the certificate to be delivered to him forthwith.
1.13.4.2.4 The certificate shall not be reissued unless, upon examination or investigation, or after a hearing, the State Fire Marshal, or his designee determines that the certificate shall be re-issued.
1.13.4.2.5 Said holder shall be entitled to a hearing within thirty days of the suspension or revocation.

1.13.5 Servicing Portable Fire Extinguishers and/or Fixed Fire Extinguishing Systems. [Chapter 13]
1.13.5.1 General. To service portable fire extinguishers and/or fixed fire extinguishing systems, both a CC and a CR shall be required.
1.13.5.1.1 A CC shall be required for each person servicing fire extinguishers or systems
1.13.5.1.2 A CR shall be required for each firm, company, corporation or other legal entity servicing fire extinguishers or systems.
1.13.5.1.3 Additional CR shall be required for each business location.

1.13.5.2 Certificate of Competency for Servicing Fire Extinguishers and Systems.
1.13.5.2.1 An applicant requesting a certificate shall comply with the following;
(1) Submit a completed application in accordance with Section 1.13.3 for the servicing of portable fire extinguishers and/or fixed fire extinguishing systems, identifying applicable type of certificate (restriction(s)) to the State Fire Marshal’s Office.
(2) An application for a Type 47 and a Type 48 certificate of competency shall be accompanied by a written attestation, enumerating the applicant’s technical qualifications, competency, and experience to charge, recharge, repair, test, inspect and service engineered or pre-engineered systems.

1.13.5.2.2 Examination for Servicing Fire Extinguishers.
(1) The State Fire Marshal shall establish a comprehensive written examination covering state laws, regulations and industry safety standards pertaining to this Code.
(2) The applicant shall successfully pass an examination as a prerequisite to the issuance of a certificate. The examination shall consist of multiple-choice, fill-in, true/false, or short answer questions, and may include the following topics:
(a) Diagrams, plans or sketches;
(b) Portable fire extinguishers: charging, recharging, servicing, testing, and inspecting;
(c) Engineered fixed fire extinguishing systems: charging, recharging, altering, repairing, testing, inspection, installation, and servicing;
(d) Pre-engineered fixed fire extinguishing systems;
(e) Self service fire extinguishing systems.

1.13.5.3 Certificate of Registration for Servicing Fire Extinguishers and Systems.
1.13.5.3.1 An applicant requesting a certificate for a firm, company, corporation or other legal entity shall submit a completed application in accordance with Section 1.13.3 for the servicing of portable fire extinguishers and/or fixed fire extinguishing systems, identifying applicable type of restriction(s).

1.13.5.4 Service Tags.
1.13.5.4.1 Approved service tags installed by the holder of a certificate shall include all of the following information on the front of the tag:
(1) The words “Do Not Remove Per Order of the State Fire Marshal” on the top front of tag;
(2) Servicing firm’s name and address;
(3) Firm’s Certificate of Registration MA-CR number and type;
(4) Type of service performed;
(5) Date service performed;
(6) Certificate of competency number of the qualified individual who performed or supervised the service(s) performed and their initials;
(7) Space and lines for recording owner and location of equipment;
(8) Space and lines for recording type and size of extinguisher.
1.13.5.4.2 Prior to printing a service tag, each firm holding a valid certificate of registration shall forward one sample of the service tag to the State Fire Marshal for approval.
1.13.5.4.3 One service tag shall be attached to each portable fire extinguisher, engineered or pre-engineered fixed fire extinguishing system or to a vessel which has been hydrostatically tested.
1.13.5.4.4 A service tag shall be affixed and indicate the date, initials and certificate number of the person who conducted the most recent test.
1.13.5.4.5 Any engineered, pre-engineered and self-service fire suppression system inspected and found to be in non-compliance with its listing or manufacturer’s specifications shall have a service tag attached indicating non-compliance.

1.13.5.4.6 Non-compliance Service Tags.
1.13.5.4.6.1 Installed non-compliance service tags shall be bright orange, have the words “Non-Compliance” in block letters not less than one half inch in height and be black in color.
1.13.5.4.6.2 Tags shall contain the firm name, certificate of registration number, date of inspection, the reason for noncompliance and the initials and certificate of competency number of the person who conducted the inspection.
Table 1.13.5 Certificates Required

<table>
<thead>
<tr>
<th>Activity</th>
<th>Description</th>
<th>Types for business entities [Registration]</th>
<th>Types for individuals [Competency]</th>
</tr>
</thead>
<tbody>
<tr>
<td>For the installation, servicing, inspection, testing alteration, repair, and recharging.</td>
<td>Self-Serve Motor Fuel Facilities.</td>
<td>Type 40</td>
<td>Type 41</td>
</tr>
<tr>
<td>Servicing portable fire extinguishers.</td>
<td>Type 42</td>
<td>Type 46</td>
<td></td>
</tr>
<tr>
<td>Servicing engineered fixed fire extinguishing systems.</td>
<td>Type 43</td>
<td>Type 47</td>
<td></td>
</tr>
<tr>
<td>Servicing pre-engineered fixed fire extinguishing systems.</td>
<td>Type 44</td>
<td>Type 48</td>
<td></td>
</tr>
</tbody>
</table>

Note: For hydrostatic testing of cylinders see Federal License requirements and DOT provisions.

1.13.6 Crowd Managers [Chapter 20]
1.13.6.1 General. For an individual to manage crowds of 100 or more in a nightclub, dance hall, discotheque or bar, a certificate of competency shall be required.
1.13.6.2 Certificate of Competency for Crowd Manager
1.13.6.2.1 An applicant requesting a CC shall comply with the following:
(1) Submit a completed application in accordance with Section 1.13.3 to the State Fire Marshal’s Office;
(2) The applicant shall be 21 years of age or older.
(3) The applicant shall receive training, as required by the State Fire Marshal.
(4) The applicant shall successfully complete the training course as a prerequisite to the issuing of a certificate.

Table 1.13.6 Certificate required

<table>
<thead>
<tr>
<th>Activity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate of Competency</td>
<td>Crowd Manager</td>
</tr>
<tr>
<td>Chapter 20</td>
<td></td>
</tr>
</tbody>
</table>

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1.13.8. Cleaning and Inspection of Commercial Cooking and Exhaust Systems.[Chapter 50]

1.13.8.1 General. To clean and inspect commercial cooking and exhaust systems the following certificates shall be required.

1.13.8.1.1 A CC shall be required for each person performing such activity.

1.13.8.1.1.1 Type 1 shall be required for an individual to offer cleaning and inspection of commercial cooking and exhaust systems to the general public.

1.13.8.1.2 A CR shall be required for the organization offering such activities.

1.13.8.1.2.1 Type 1 shall be required for a sole proprietor, company, firm, corporation, or other legal entity to offer cleaning and inspection of commercial cooking and exhaust systems to the general public.

1.13.8.1.2.2 A Type 1 CR by itself shall not allow the holder to perform the actual activity of cleaning and inspection of commercial cooking and exhaust systems.

1.13.8.2 Certificate of Competency for Cleaning and Inspection of Cooking Systems

1.13.8.2.1 An applicant requesting a CC shall comply with the following:

1. Submit a completed application in accordance with Section 1.13.3 for the cleaning or inspection of commercial cooking operations to the State Fire Marshal’s Office;
2. Submit a completed affidavit verifying 500 hours of supervision in the cleaning or inspection of commercial cooking operations. The State Fire Marshal may develop forms for the purposes of confirming the 500 hours of experience;
3. The applicant shall successfully pass an examination as a prerequisite to the issuing of a certificate.

1.13.8.3 Certificate of Registration for Cleaning and Inspection of Cooking Systems

1.13.8.3.1 An applicant requesting a CR shall submit a completed application in accordance with Section 1.13.3 for the cleaning or inspection of commercial cooking operations to the State Fire Marshal’s Office.
Table 1.13.8 Certificates Required

<table>
<thead>
<tr>
<th>Chapter 50</th>
<th>Cleaning and Inspection of Commercial Cooking and Exhaust Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certificate of Competency</strong></td>
<td></td>
</tr>
<tr>
<td>Activity</td>
<td>Type</td>
</tr>
<tr>
<td>To an individual who will be offering or conducting or engaging in the cleaning or inspection of commercial cooking and exhaust equipment</td>
<td>Type 1</td>
</tr>
<tr>
<td>To an individual cleaning their own or their employer’s commercial cooking and exhaust equipment</td>
<td>Type 2 Restricted</td>
</tr>
<tr>
<td><strong>Certificate of Registration</strong></td>
<td></td>
</tr>
<tr>
<td>Activity</td>
<td>Type</td>
</tr>
<tr>
<td>To an organization that will be offering or conducting or engaging in the cleaning or inspection of commercial cooking and exhaust equipment</td>
<td>Type 1</td>
</tr>
</tbody>
</table>

1.13.9 Cannon and Mortar.[Chapter 65]

Table 1.13.9 Certificates Required

<table>
<thead>
<tr>
<th>Chapter 65</th>
<th>Cannon and Mortar</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certificate of Competency</strong></td>
<td></td>
</tr>
<tr>
<td>Activity</td>
<td>Description</td>
</tr>
<tr>
<td>Individuals to conduct or engage in any operation or activity which governs the firing of muzzle-loading cannons.</td>
<td>For patriotic celebrations and re-enactments, including all such cannons ranging from pre-revolutionary war vintage to present day facsimiles, except any cannon exhibit in which explosives are not being used.</td>
</tr>
</tbody>
</table>
1.13.10 Fireworks Display, Special Effects or Proximate Audience Displays.[Chapter 65]

1.13.10.1 General. To display fireworks and special effects or proximate audience displays, both a CC and a UC shall be required.

1.13.10.1.1 A CC shall be required for the display of fireworks.

1.13.10.1.2 A CC shall be required for special effects or proximate audience displays.

1.13.10.1.3 A CC shall be required for each person performing each such activity.

1.13.10.1.4 A UC for fireworks shall be required for each firm, company, corporation, or other legal entity.

1.13.10.1.5 Additional UC for fireworks shall be issued contingent upon multiple business locations.

1.13.10.2 Certificate of Competency for Fireworks Display.

1.13.10.2.1 Applicants shall comply with the following:

(1) Submit a completed application in accordance with Section 1.13.3 for the display of fireworks to the State Fire Marshal’s Office.

(2) Provide evidence of active employment for a period of three years on a crew for professional fireworks displays, to encompass a minimum of ten displays.

(3) Submit at least two letters of reference from other certificate holders within the state. At the option of the State Fire Marshal, an alternate requirement shall be permitted to be substituted.

(4) Provide evidence of having satisfactorily completed a recognized fireworks safety course, subject to review by the State Fire Marshal, during the past 12 months.

(5) The applicant shall be 21 years of age or older.

(6) Pass a comprehensive written examination covering state laws, regulations and industry safety standards pertaining to the display of fireworks and this Code.

1.13.10.2.2 Renewal of Certificate of Competency.

1.13.10.2.2.1 The applicant requesting renewal shall comply with the following:

(1) Proof of actively participating in at least two displays during the prior two years;

(2) A notarized statement attesting that the person understands the contents of this Code pertaining to fireworks display and M.G.L. c. 148. The statement shall be made part of the application;

(3) Submit a renewal application as provided in Section 1.13.3 to the State Fire Marshal’s Office.

1.13.10.4 Users Certificate for Fireworks. [Chapter 65]

1.13.10.4.1 Applicants shall comply with the following:

(1) Submit a completed application in accordance with Section 1.13.3 for a user’s certificate to the State Fire Marshal’s Office;

(2) Provide evidence of a valid bond in accordance with M.G.L. c. 148, § 42.
(a) Supply evidence of valid liability insurance coverage in the form of a certificate issued by the
insurance agency to the State Fire Marshal’s Office listing the name and claims representative,
providing general liability in the amount of $1,000,000 per occurrence and $1,000,000 aggregate
coverage;
(b) A 30 day cancellation notice to the State Fire Marshal shall be a condition of the policy;
(3) Provide a notarized statement indicating that fireworks materials shall be transported, stored,
and handled or used in accordance with Chapter 65;
(4) Provide a statement attesting that the person or firm understands the contents of this Code
and M.G.L. c. 148. The statement shall be made a part of the application.

1.13.10.4.2 Expiration of Fireworks User Certificate.
1.13.10.4.2.1 A fireworks user’s certificate shall expire upon the expiration of the ATF permit,
bond, or the liability insurance, whichever occurs first.

1.13.10.5 Certificate of Competency for Special Effects or Proximate Audience Displays.
[Chapter 65]

1.13.10.5.1 Applicants shall comply with the following:
(1) Submit a completed application in accordance with Section 1.13.3 to the State Fire Marshal’s
Office;
(2) Submit evidence of knowledge and experience particular to the profession of conducting
special effects displays. Such evidence shall include written documentation that the applicant has
worked in at least ten special effects performances within two years from the date of application,
under the direct supervision of a person who possesses a valid certificate of competency for such
special effects issued by the commonwealth or such similar certificate issued by another state;
(3) Provide evidence of having satisfactorily completed a recognized fireworks safety course,
approved by the State Fire Marshal, during the past 12 months;
(4) Provide at least two letters of reference from other pyrotechnic certificate holders within the
state. At the option of the State Fire Marshal, an alternate requirement can be substituted.
(5) The applicant shall be at least 21 years of age or older
(6) Pass a comprehensive written examination covering state laws, regulations and industry
safety standards pertaining to the display of special effects and this Code.

1.13.10.5.2 Renewal An applicant requesting renewal shall comply with all of the following:
(1) Pass a re-examination covering state laws, regulations and industry safety standards
pertaining to the display of special effects;
(2) Submit proof of actively participating in at least two displays during the prior two years;
(3) Provide a statement attesting that the person understands the contents of this Code pertaining
to special effects and M.G.L. c. 148. The statement shall be made part of the application;
(4) Submit a renewal application as provided in Section 1.13.3.3 to the State Fire Marshal’s
Office.
1.13.10.6 Supervision. Fireworks, special effects and pyrotechnic compositions and devices shall be ignited and be supervised continuously by the person holding a Certificate of Competency for the display.

Table 1.13.10 Certificates Required

<table>
<thead>
<tr>
<th>Chapter 65</th>
<th>Fireworks, Special Effects and Proximate Audience Displays</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certificate of Competency</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Activity</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>Individuals to conduct or engage in any activity, operation or act with the use of fireworks.</td>
<td>To conduct outdoor, marine or supervised displays of fireworks.</td>
</tr>
<tr>
<td>Individuals to conduct or engage in any activity, operation or act with the use of special effects or proximate audience effects.</td>
<td>To conduct outdoor / indoor, proximate audience special effects displays.</td>
</tr>
<tr>
<td><strong>Fireworks User Certificate</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Activity</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>Companies to conduct or engage in any operation (use or manufacture) or act for which governs the use of fireworks or special effects.</td>
<td>To possess and conduct fireworks or special effects.</td>
</tr>
</tbody>
</table>

1.13.11. To Conduct or Engage in Any Activity, Operation, or Act Dealing with the Use and Manufacture of Explosives [Chapter 65]

1.13.11.1 General. To conduct or engage in any activity, operation, or act dealing with the use of explosives, both a Certificate of Competency and a User Certificate shall be required.

1.13.11.1.1 A CC shall be required for each person performing activities prescribed in this section

1.13.11.1.2 A UC shall be required for each firm, company, corporation or other legal entity.
1.13.11.1.3 Additional user certificates shall be required to be issued contingent upon multiple places of business.

1.13.11.2 Certificate of Competency for Explosives. [Chapter 65]
1.13.11.2.1 Applicants shall comply with the following
(1) The applicant shall be 21 years of age or older
(2) Submit a completed application in accordance with Section 1.13.3 to the State Fire Marshal’s Office;
(3) Pass a comprehensive written examination covering state laws, regulations and industry safety standards pertaining to this Code;
(4) Provide evidence of having satisfactorily completed a recognized safety course, subject to review by the State Fire Marshal, during the past 12 months;
(5) Have at least two letters of reference from other certificate holders within the state. At the option of the State Fire Marshal, an alternate requirement may be permitted.

1.13.11.2.2 Blasting. [Chapter 65]
1.13.11.2.2.1 No blasting operation shall be conducted at any time unless a blaster holding a certificate of competency is physically present.
1.13.11.2.2.2 Trainees, helpers, and other persons shall be permitted to work only under the supervision of a blaster holding a CC.

1.13.11.2.3 User Certificate for Explosives. [Chapter 65]

1.13.11.2.3.1 The applicant shall comply with the following:
(1) Submit a completed application in accordance with Section 1.13.3 to the State Fire Marshal’s Office;
(2) Provide evidence of valid liability insurance coverage in the form of a certificate issued by the insurance agency to the State Fire Marshal’s Office listing the name and claims representative, providing general liability in the amount of $1,000,000 per occurrence and $1,000,000 aggregate coverage. A 30 day cancellation notice to the State Fire Marshal shall be a condition of the policy;
(3) Provide evidence of a valid blasting bond;
(4) Provide a statement indicating that explosive materials shall be kept in magazines which meet the requirements of Chapter 65 and in accordance with 27 CFR Part 55. Provide a notarized statement attesting that the person or firm understands the contents of this Code and M.G.L. c. 148.

1.13.11.2.3.2. A UC shall not be required for small arms ammunition. Small arms ammunition, as used here, means any shotgun, rifle, or pistol cartridge and any cartridge or propellant actuated devices, excluding military ammunition containing bursting charges or incendiary, tracer, spotting, or pyrotechnic projectiles;
1.13.11.2.3.3 The UC for explosives shall expire upon the expiration of the ATF permit, bond, or the liability insurance, whichever occurs first.

Table 1.13.11 Certificates Required

<table>
<thead>
<tr>
<th>Chapter 65</th>
<th>Explosive Use and Handling Certificate of Competency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity</td>
<td>Description</td>
</tr>
<tr>
<td>Allows individuals to conduct or engage in any activity, operation or act dealing with the use of explosives;</td>
<td>To conduct blasting operations, including: research and development (R&amp;D), and blasting for the cleaning of boilers.</td>
</tr>
</tbody>
</table>

Explosive User Certificate

<table>
<thead>
<tr>
<th>Activity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows companies to conduct or engage in any operation (use, handling or manufacture) of explosives;</td>
<td>To possess and conduct explosive activity or operation.</td>
</tr>
<tr>
<td></td>
<td>To manufacture explosive materials.</td>
</tr>
</tbody>
</table>

1.13.12 Renewal of Certificates. The following certificates shall be renewed as provided in Table 1.13.12 and Section 1.13.

Table 1.13.12

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Type of Certificate</th>
<th>Description</th>
<th>Expiration Date [See Note 1 and 2]</th>
<th>Exam Required for Renewal</th>
<th>Acronym*</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Registration</td>
<td>Servicing Self-Serve Motor Fuel fire suppression systems. Company Type 40</td>
<td>2 yrs from date of issue</td>
<td>No</td>
<td>CR</td>
</tr>
<tr>
<td>13</td>
<td>Registration</td>
<td>Servicing Portable Fire Extinguishers. Company Type 42</td>
<td>2 yrs from date of issue</td>
<td>No</td>
<td>CR</td>
</tr>
<tr>
<td>13</td>
<td>Registration</td>
<td>Special hazards Engineered (Fixed Fire Extinguishing Systems.) Company Type 43</td>
<td>2 yrs from date of issue</td>
<td>No</td>
<td>CR</td>
</tr>
</tbody>
</table>

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
### Chapter Type of Certificate Description Expiration Date [See Note 1 and 2] Exam Required for Renewal Acronym*

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Type of Certificate</th>
<th>Description</th>
<th>Expiration Date</th>
<th>Exam Required for Renewal</th>
<th>Acronym*</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Registration</td>
<td>Special Hazards Pre-Engineered (Fixed Fire Extinguishing Systems.) Company Type 44</td>
<td>2 yrs from date of issue</td>
<td>No</td>
<td>CR</td>
</tr>
<tr>
<td>50</td>
<td>Competency</td>
<td>Cleaning of Commercial Cooking Exhaust Systems Individual Type 2 Restricted</td>
<td>3 yrs Renewal on DOB</td>
<td>No</td>
<td>HC</td>
</tr>
<tr>
<td>50</td>
<td>Competency</td>
<td>Cleaning/Inspection of Commercial Cooking Exhaust Systems Individual Type 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Registration</td>
<td>Cleaning/Inspection of Commercial Cooking Exhaust Systems Company Type 1</td>
<td>2 yrs from date of issue</td>
<td>No</td>
<td>HCI</td>
</tr>
<tr>
<td>65</td>
<td>Competency</td>
<td>Cannon/Mortar Individual</td>
<td>5 yrs Renewal on DOB</td>
<td>No</td>
<td>CN</td>
</tr>
<tr>
<td>20</td>
<td>Competency</td>
<td>Crowd Manager Individual</td>
<td>3 yr from date of issue</td>
<td>Yes</td>
<td>MFA</td>
</tr>
<tr>
<td>Competency</td>
<td>Special Effects Individual</td>
<td>2 yrs Renewal on DOB</td>
<td>Yes</td>
<td>SE</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>User</td>
<td>Special Effects Company</td>
<td>1 yr or less dependent on ATF permit, bond and/or insurance</td>
<td>No</td>
<td>PY</td>
</tr>
<tr>
<td>User</td>
<td>Pyrotechnic Company</td>
<td>1 yr or less dependent on ATF permit, bond and/or insurance</td>
<td>No</td>
<td>PY</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>User</td>
<td>Fireworks Company</td>
<td>No</td>
<td>PY</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Competency</td>
<td>Fireworks Individual</td>
<td>2 yrs Renewal on DOB</td>
<td>No</td>
<td>FW</td>
</tr>
</tbody>
</table>

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### Massachussetts Amendments to NFPA ®1, 2015

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Type of Certificate</th>
<th>Description</th>
<th>Expiration Date [See Note 1 and 2]</th>
<th>Exam Required for Renewal</th>
<th>Acronym*</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>Competency</td>
<td>Explosives Individual</td>
<td>2 yrs Renewal on DOB</td>
<td>No</td>
<td>BL</td>
</tr>
<tr>
<td>65</td>
<td>Registration</td>
<td>Blasting (Site work) Company</td>
<td>Based on the Explosive User Certificate</td>
<td>No</td>
<td>BL</td>
</tr>
<tr>
<td>65</td>
<td>User</td>
<td>Blasting (Boiler) Company</td>
<td>No</td>
<td>BL</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Competency</td>
<td>Servicing Engineered Fixed Fire Extinguishing Systems Individual Type 47</td>
<td>2 yrs Cycle Renewal on DOB</td>
<td>No</td>
<td>CC</td>
</tr>
<tr>
<td>13</td>
<td>Competency</td>
<td>Servicing Pre-engineered Fixed Fire Extinguishing Systems Individual Type 48</td>
<td>2 yrs Renewal on DOB</td>
<td>No</td>
<td>CC</td>
</tr>
<tr>
<td>13</td>
<td>Competency</td>
<td>Self-Serve Motor Fuel Facilities Individual Type 41</td>
<td>2 yrs Renewal on DOB</td>
<td>No</td>
<td>CC</td>
</tr>
<tr>
<td>13</td>
<td>Competency</td>
<td>Servicing Portable Fire Extinguishers Individual Type 46</td>
<td>2 yrs Renewal on DOB</td>
<td>No</td>
<td>CC</td>
</tr>
<tr>
<td>65</td>
<td>User</td>
<td>Explosives Certificate by location</td>
<td>1 yr or less dependent on ATF permit, and insurance Bond is waived for R &amp;D Licenses</td>
<td>No</td>
<td>EUC</td>
</tr>
<tr>
<td>65</td>
<td>User</td>
<td>Blasting - Company Research and Development Company</td>
<td>No</td>
<td>TF</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>User</td>
<td>Boiler Cleaning Company</td>
<td>No</td>
<td>MP</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>User</td>
<td>Transport Fireworks (Permit by location)</td>
<td>1 yr from date of issuance</td>
<td>No</td>
<td>TF</td>
</tr>
<tr>
<td>65</td>
<td>User</td>
<td>Magazine (Explosives) (Permit by location) Mobile</td>
<td>No Exam, inspection required</td>
<td>MP</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Magazine Explosive (Permit by location)</td>
<td>Annually on 3/31</td>
<td>MP</td>
<td></td>
</tr>
</tbody>
</table>

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### Chapter 65

<table>
<thead>
<tr>
<th>Type of Certificate</th>
<th>Description</th>
<th>Expiration Date [See Note 1 and 2]</th>
<th>Exam Required for Renewal</th>
<th>Acronym*</th>
</tr>
</thead>
<tbody>
<tr>
<td>User</td>
<td>Remote Firing Panel</td>
<td>5 yrs from date of issuance</td>
<td>No Exam, inspection required</td>
<td>RF</td>
</tr>
<tr>
<td>User</td>
<td>Dense Pack Portable firing trailers</td>
<td></td>
<td></td>
<td>DPP</td>
</tr>
<tr>
<td>User</td>
<td>Sell explosives (License by location)</td>
<td>1 yr from date of issuance</td>
<td>No</td>
<td>LS</td>
</tr>
<tr>
<td>User</td>
<td>Sell black or smokeless powder (License by location)</td>
<td>1 yr from date of issuance</td>
<td>No</td>
<td>SP</td>
</tr>
</tbody>
</table>

**Note 1.** DOB as used here means the date and year someone was born or such anniversary date.

**Note 2.** ATF as used here means Bureau of Alcohol, Tobacco and Firearms and Explosives.

**1.14 Plan Review and Approvals.**

**1.14.1 General.**

**1.14.1.2** Where permits and plan reviews are required by this Code, the AHJ shall complete plan reviews for new construction, modification, or rehabilitation, of any building, structure or facility.

**1.14.1.3** Construction documents and shop drawings submitted shall be approved by the AHJ before work commences and within 30 days of the date of receipt of a completed application and construction documents, unless extended by the AHJ.

**1.14.1.4** Review and approval by the AHJ shall not relieve the applicant of the responsibility of continued compliance with this Code.

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*Identifier for certificates used in database (MLO)

**Special effects (company) and fireworks under Pyrotechnic User Certificate.*
1.14.1.5 When required by the AHJ, revised construction documents or shop drawings shall be prepared and submitted for review and approval to illustrate corrections or modifications necessitated by field conditions or other revisions to approved plans.

1.14.2 Applicants Responsibility.
1.14.2.1 The applicant shall be responsible to ensure that the following conditions are met:
(1) The construction documents include fire protection requirements;
(2) The shop drawings are correct and in compliance with the applicable codes and standards;
(3) The contractor maintains an approved set of construction documents on site.

1.14.3 AHJ Responsibility.
1.14.3.1 It shall be the responsibility of the AHJ to promulgate policies and procedures that cover the following:
(1) Criteria to meet the requirements of Sections 1.12 and 1.13;
(2) Review all of documents and related information within the established time frames for the purpose of acceptance or providing reasons for non-acceptance.

1.14.4 Explosives Manufacturing.
1.14.4.1 Plans.
1.14.4.1.1 Explosives manufacturing requires a plan drawn to scale showing the arrangement of the various buildings and magazines of the manufactory and the egress therefrom, their relative location to other buildings and property lines and shall be submitted to the Head of the Fire Department and State Fire Marshal indicating the following:
(1) The location of the manufactory;
(2) The name of the owner and/or occupant;
(3) The kind and maximum quantities of the explosives, raw materials and finished products and the manner in which they are to be kept or stored;
(4) The nature of the work to be carried on in each building;
(5) A fire safety analysis conducted by a registered professional engineer.

1.14.5 Marine Fueling Facility.
1.14.5.1 General.
1.14.5.1.1 Prior to conducting any construction or alteration activity to a new or existing fixed marine fueling facility, a registered design professional shall prepare and submit three (3) complete stamped and scaled sets of plans and specifications to the Head of the Fire Department and the State Fire Marshal.
1.14.5.1.2 One set of plans shall be marked State Fire Marshal’s office copy, a second set of plans shall be marked Head of Fire Department copy and the third set of plans marked owner’s
copy. Such marking for each set of plans shall be in bold and located on the lower right hand legend.

1.14.5.1.3 All designs, blueprints, plans and specifications shall comply with the provisions of this Code and any other applicable state or federal regulations. The Head of the Fire Department and the State Fire Marshal’s Office must approve the design submission or modification before any construction is commenced. The packet of plans and specifications shall include the following:

1. The design review fee required by the Head of the Fire Department and the State Fire Marshal’s Office;
2. A cover letter providing an overview of the planned work, the location of the work and the legal name and address of the facility owner, operator and person(s) or company who will be conducting the work;
3. A copy of the current and valid registration or copy of the license to store flammables (Form FP-2) issued under M.G.L. c. 148, § 13 or a current and valid permit if a license is not applicable under M.G.L. c. 148 § 13;
4. Current permit (existing facilities only);
5. Scaled design plans indicating the locations of all piers, storage tanks, piping systems, hoses, dispensing nozzle locations, equipment, signage, path of the electrical static grounding systems, fire access roadway(s), travel from the closest fire apparatus to the foot of the marine wharf, the location and type of water standpipe system, the location of the nearest hydrant, location of the piping system, flexible hose, couplings, control valves, and swing and swivel joints, and for mobile fueling facilities, the designated location(s) that the fuel truck shall park to dispense fuel. A notation on the plan legend shall indicate the location and type of fire extinguishing systems, fuel dispensing nozzles, and the maximum number of dispensing nozzles, which can be operated simultaneously;
6. A statement that the blueprints, plans and specifications of the installation comply with the requirements of the provisions of this Code and any other applicable state or federal regulation;
7. A clear indication of fire access roadways and appropriate signage as directed by the Head of the Fire Department to allow for local enforcement of fire lane designation;
8. A detailed drawing of the entire marine wharf, and floats showing the fueling location, tie up area(s) and all of the berthing areas.

1.15 Technical Assistance.
1.15.1 General.
1.15.1.1 As permitted by other sections of this Code, the AHJ shall be permitted to require a review by an approved independent third party with expertise in the matter, to be reviewed at the submitter's expense.
1.15.1.2 The independent reviewer shall provide an evaluation and, if appropriate, recommend necessary changes of the proposed design, operation, process, or new technology to the AHJ.
1.15.1.3 The AHJ shall be authorized to require design submittals to bear the stamp of a registered design professional.
1.15.1.4 The AHJ shall make the final determination as to whether the provisions of this Code have been met.

1.16 Notice of Violations and Penalties.
1.16.1 General.
1.16.1.1 Any person who mutilates, destroys, or removes posted orders or notices without the authorization of the AHJ, shall be deemed in violation of this Code.

1.16.2 Criminal Enforcement. Whenever the AHJ has reason to believe that a violation of this Code has occurred, written notification of said violation shall be issued in accordance with the provisions of M.G.L. c. 148.

1.16.3 Alternative Civil Enforcement Option. As an alternative to initiating criminal proceedings in a court of law under the provisions of M.G.L. c. 148, the AHJ, may initiate the alternative civil code enforcement option as provided in M.G.L. c. 148A, by issuing the standardized notice of violation form as prescribed by M.G.L. c. 148A. The provisions of Section 1.16.3 may only be utilized by the Head of the Fire Department or his designee if the jurisdiction has designated a municipal hearings officer in accordance with M.G.L. c. 148A.
1.16.3.1 Any order or notice issued pursuant to this Code shall be served upon the owner, operator, occupant, or other person responsible for the condition or violation in accordance with the provisions of M.G.L. c. 148 or, if applicable, M.G.L. c. 148A, if the alternative civil enforcement option is utilized.

1.16.4 Penalties.
1.16.4.1 Any person who fails to comply with the provisions of this Code or who fails to carry out an order made pursuant to this Code or violates any condition attached to a permit, approval, or certificate shall be subject to penalties in accordance with M.G.L. c. 148 or, if applicable, M.G.L. c. 148A.
1.16.4.5 Failure to comply with the time limits of an abatement notice or other corrective notice issued by the AHJ shall, unless otherwise specified, result in a new and separate offense for each day that such violation continues.

Chapter 2 Referenced Publications
2.2 NFPA 70 Publication. Replace with the following:
2.2 NFPA Publications.
Replace with the following:

Add

2.3.1 ANSI Publications. Add

2.3.6 ASTM Publications. Add
ASTM D 6751-11b, *Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels*
ASTM D 7462-11, *Standard Test Method for Oxidation Stability of Biodiesel (B100) and Blends of Biodiesel with Middle Distillate Petroleum Fuel (Accelerated Method)*

2.3.7 CGA Publications. Replace with the following:

2.3.17 UL Publications. Add

### 2.3.20 U.S. Government Publications. Add
Code of Federal Regulations (CFR):
*Title 40, Code of Federal Regulations, Parts 152.175 and 156.10(i)(A).*
*Title 21, United States Code, Chapter 9, Federal Food, Drug, and Cosmetics Act.*
*Title 29, Code of Federal Regulations, 1910.1450, Occupational Safety and Health Administration (OSHA) Occupational Exposure to Hazardous Chemicals in Laboratories.*
*Title 33, Code of Federal Regulations, Part 126, Handling of Dangerous Cargo at Waterfront Facilities.*
*Title 40, Code of Federal Regulations, Part 60 Standards of Performance for New Stationary Sources.*
*Title 49, Code of Federal Regulations Transportation*

### 2.3.21 Other Publications. Add
APA Standard 87–1.

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IAMPO Uniform Mechanical Code.
STI SP 001, Standard for the Inspection of Aboveground Storage Tanks.
Transport Canada (TC), Transportation of Dangerous Goods Regulations.

2.3.22 Massachusetts Regulations. Add
Code of Massachusetts Regulations (CMR) Publications:
105 CMR: Department of Public Health
248 CMR: Board of State Examiners of Plumbers and Gas Fitters
257 CMR 2.00: Certification of Operators of Wastewater Treatment Facilities
Department of Environmental Protection:
310 CMR 7.00: Air Pollution Control
310 CMR 30.00: Hazardous Waste
310 CMR 80.00: Underground Storage Tanks
527 CMR 1.00: Comprehensive Fire Safety Code Massachusetts
527 CMR 12.00: Massachusetts Electrical Code
528 CMR: Bureau of Pipe Fitters and Refrigeration Technicians
780 CMR: Massachusetts Building Code

2.3.23 (M.G.L.) Massachusetts General Law. Add
M. G. L. c. 21E: Massachusetts Oil and Hazardous Material Release Prevention Act
M. G. L. c. 48: Fires, Fire Departments and Fire Districts
M. G. L. c. 22D: Department of Fires Services
M. G. L. c. 148: Fire Prevention
M. G. L. c. 148A: Code Enforcement Officer
M. G. L. c. 141: Supervision of Electricians
M. G. L. c. 142: Supervision of Plumbing
M. G. L. c. 143, § 3L: Regulations Relative to Electrical Wiring and Fixtures; Notice of Electrical Installation
M. G. L. c. 143, § 96: Specialized Codes Rules or Regulations.

2.4 References for Extracts in Mandatory Sections. Add
Chapter 3 Definitions.

3.2.2. Replace with the following:
3.2.2 **Authority Having Jurisdiction (AHJ)**. Authority Having Jurisdiction (AHJ) shall be the Head of the Fire Department or the State Fire Marshal and their designees, as defined in M.G.L. c. 148.

3.3.14.2. Replace with the following:
3.3.14.2 **Control Area**. A building or portion of a building, enclosed and bounded by exterior walls, fire walls, fire barriers and roofs, or a combination thereof, or an outdoor area within which hazardous materials are allowed to be stored, dispensed, used, or handled in quantities not exceeding the maximum allowable quantities (MAQ).

3.3.29. Replace with the following:
3.3.29 **Building**. A combination of any materials, whether portable or fixed, having a roof, to form a structure for the shelter of persons, animals or property. For the purpose of this definition “roof” shall include an awning or any similar covering, whether or not permanent in nature. The word “building” shall be construed where the context allows as though followed by the words “or part or parts thereof”.

3.3.39. Replace with the following:
3.3.39 **Certificate**. A written document for the purpose of granting permission to conduct or engage in any operation or act for which certification is required by way of one or more of the following:

3.3.39.1. Add
3.3.39.1 **Certificate of Competency**. A written document issued by the State Fire Marshal to a person who has passed an examination for a particular profession which allows that person to be in charge of and responsible for the regulated activity.

3.3.39.2. Add
3.3.39.2 **Fireworks User’s Certificate**. A certificate which allows a person, firm, corporation or other legal entity to use or handle fireworks.

3.3.39.3. Add
3.3.39.3 **Explosives Users Certificate**. A certificate issued to a firm or company, indicating the rebuttable presumption of statutory and regulatory compliance with responsible levels of liability insurance and bonds required by M.G.L. c. 148, §§ 19, 20 and 20A, explosive storage magazines, and a general knowledge of the requirements of explosive regulations in the use or handling of explosives.

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3.3.39.4. Add
3.3.39.4 **Certificate of Registration.** A written document issued by the State Fire Marshal to a person, firm or corporation for the purpose of granting permission to conduct or engage in servicing fire extinguishing systems.

3.3.53.1. Replace with the following:
**3.3.53.1 Building Code** referenced in Section 2.3.22 and 1.1.

3.3.53.2. Replace with the following:
**3.3.53.2 Electrical Code** referenced in Section 2.2 and 2.3.22.

3.3.53.3. Replace with the following:
**3.3.53.3 Mechanical Code.** The *Building Code* as referenced in Section 2.3.22.

3.3.53.4. Replace with the following:
**3.3.53.4 Plumbing Code** referenced in Section 2.3.22.

3.3.53.5. Add:
**3.3.53.5 This Code** as referenced in Section 2.3.22.

3.3.141. Replace with the following:
**3.3.141 Handling.** The deliberate transport by any means to a point of storage, use, or processing.

3.3.143*. Replace with the following:
**3.3.143 Physical Hazard.** A chemical for which there is evidence that it is a combustible liquid, compressed gas, cryogenic, explosive, flammable gas, flammable liquid, flammable solid, organic peroxide, oxidizer, pyrophoric or unstable (reactive) or water-reactive material.

3.3.155*. Replace with the following:
**3.3.155 Incident Commander (IC).** The individual responsible for all incident activities, including the development of strategies and tactics and the ordering and the release of resources. The IC has overall authority and responsibility for conducting incident operations and is responsible for the management of all incident operations at the incident site.
3.3.173.15*. Replace with the following:

3.3.173.15 **Unstable (Reactive) Material.** A material, other than an explosive, which in the pure state or as commercially produced, will vigorously polymerize, decompose, condense or become self-reactive and undergo other violent chemical changes, including explosion, when exposed to heat, friction or shock, or in the absence of an inhibitor, or in the presence of contaminants, or in contact with incompatible materials. Unstable (reactive) materials are subdivided and defined as follows:

3.3.173.15.1 **Class 1.** Materials that in themselves are normally stable, but which can become unstable at elevated temperatures and pressure.

3.3.173.15.2 **Class 2.** Materials that in themselves are normally unstable and readily undergo violent chemical change, but do not detonate. This class includes materials that can undergo chemical change with rapid release of energy at normal temperatures and pressures, and that can undergo violent chemical change at elevated temperatures and pressures.

3.3.173.15.3 **Class 3.** Materials that in themselves are capable of detonation or of explosive decomposition or explosive reaction, but which require a strong initiating source or which must be heated under confinement before initiation. This class includes materials that are sensitive to thermal or mechanical shock at elevated temperatures and pressures.

3.3.173.15.4 **Class 4.** Materials that in themselves is readily capable of detonation or explosive decomposition or explosive reaction at normal temperatures and pressures. This class includes materials that are sensitive to mechanical or localized thermal shock at normal temperatures and pressures.

3.3.173.16.1 Add

3.3.173.16.1 **Class 1.** Materials that may react with water with some release of energy, but not violently.

3.3.173.16.2 Add

3.3.173.16.2 **Class 2.** Materials that may form potentially explosive mixtures with water.

3.3.173.16.3 Add

3.3.173.16.3 **Class 3.** Materials that react explosively with water without requiring heat or confinement.

3.3.189.1.6 Add

3.3.189.1.6 **Unclassified Detonable.** Organic peroxides that are capable of detonation. These peroxides pose an extremely high explosion hazard through rapid explosive decomposition.

3.3.192.1.1 Add

3.3.192.1.1 **Oxidizing Gas.** A gas that can support and accelerate combustion of other materials.
3.3.206. Replace with the following:
3.3.206 **Process or Processing.** A sequence of operations in which the sequence can be inclusive of physical operations such as heating, cooling, mixing, distilling, compressing, and pressurizing, and chemical operations, such as polymerization, oxidation, reduction, and other chemical reaction processes. The sequence can involve but is not limited to: preparation, separation, combination, purification, or any actions that cause a change in state, energy content, or chemical composition.

3.3.212. Replace with the following:
3.3.212 **Pyrophoric.** A chemical with an autoignition temperature in air, at or below a temperature of 130°F (54.4°C).

3.3.236.2. Replace with the following:
3.3.236.2 **Flammable Solid.** A solid, other than a blasting agent or explosive, that is capable of causing fire through friction, absorption or moisture, spontaneous chemical change, or retained heat from manufacturing or processing, or which has an ignition temperature below 212°F (100°C) or which burns so vigorously and persistently when ignited as to create a serious hazard.

3.3.252. Replace with the following:
3.3.252 **Structure.** A combination of materials assembled at a fixed location to give support or shelter, such as a building, framework, retaining wall, tent, reviewing stand, platform, bin, fence, sign, flagpole, mast for radio antenna or the like. The word “structure” shall be construed, where the context allows, as though followed by the words “or part or parts thereof”.

3.3.255.8. Add
3.3.255.8 **Underground Storage Tank (UST).** As defined and regulated by 310 CMR 80.00.

3.3.278. Add
3.3.278 **Water-reactive Material.** A material that explodes; violently reacts; produces flammable, toxic or other hazardous gases; or evolves enough heat to cause self-ignition or ignition of nearby combustibles upon exposure to water or moisture. Water-reactive Material are subdivided and defined as follows:
3.3.278.1 **Class 1.** Materials that may react with water with some release of energy, but not violently.
3.3.278.2 **Class 2.** Materials that may form potentially explosive mixtures with water.
3.3.278.3 **Class 3.** Materials that react explosively with water without requiring heat or confinement.
Chapter 4 General Requirements. Chapter 4 Delete in its entirety and replace it with the following:

4.1.1 Goals. The goals in Chapter 4 of this Code shall be used as guidance to achieve a reasonable level of safety, property protection, and public welfare from the hazards created by fire, explosion, and other hazardous conditions. The prescribed requirements are found in other Chapters of this Code and the Building Code.

4.4 Fundamental Requirements.
4.4.3 Means of Egress.
4.4.3.1 Unobstructed Egress.
4.4.3.1.1 In every occupied building or structure, means of egress from all parts of the building shall be maintained free and unobstructed.
4.4.3.1.2 No lock or fastening shall be permitted that prevents free escape from the inside of any building other than in health care occupations and detention and correctional occupancies where staff are continually on duty and effective provisions are made to remove occupants in case of fire’ or other emergency.

4.4.3.2 Awareness of Egress System.
4.4.3.2.1 Every exit shall be clearly visible, or the route to reach every exit shall be conspicuously indicated in accordance with the Building Code.
4.4.3.2.2 Each means of egress, in its entirety, shall be arranged or marked so that the way to a place of safety is indicated in a clear manner in accordance with the Building Code.

4.4.3.2.3 Lighting. Illumination of means of egress shall be provided in accordance with the Building Code.

4.5 General Requirements.
4.5.1 Authority Having Jurisdiction (AHJ).
4.5.1.1 The AHJ shall determine whether the provisions of this Code are met.
4.5.1.2 Where it is evident that a reasonable degree of safety is provided, any requirement shall be permitted to be modified if its application would be hazardous under normal occupancy conditions in the judgment of the AHJ.

4.5.3 Provisions in Excess of Code Requirements. Nothing in this Code shall be construed to prohibit a better type of building construction, an additional means of egress, or an otherwise more safe condition than that specified by the minimum requirements of this Code.
4.5.4 Conditions for Occupancy. No new construction or existing building shall be occupied in whole or in part in violation of the provisions of this Code unless the following conditions exist:
(1) A plan of correction has been approved.
(2) The occupancy classification remains the same.
(3) No serious life safety hazard exists as judged by the AHJ.

4.5.5 Warrant of Fitness.
4.5.5.1 Where compliance with this Code is effected by means of a performance-based design, the owner shall annually certify compliance with the conditions and limitations of the design by submitting a warrant of fitness acceptable to the AHJ.
4.5.5.2 The warrant of fitness shall attest that the building features, systems, and use have been inspected and confirmed to remain consistent with design specifications outlined in the documentation required by 5.1.8 and 5.7.3 and that they continue to satisfy the goals and objectives specified in Section 4.1.1 (Section 5.1.11.)

4.5.6 Construction, Repair, and Improvement Operations.
4.5.6.1 Buildings or portions of buildings shall be permitted to be occupied during construction, repair, alterations, or additions only where required means of egress and required fire protection features are in place and continuously maintained for the portion occupied or where alternative life safety measures and building protection measures acceptable to the AHJ are in place.

4.5.6.2 Escape Facilities.
4.5.6.2.1 In buildings under construction, adequate escape facilities shall be maintained at all times for the use of construction workers as provided in the Building Code.
4.5.6.2.2 Escape facilities shall consist of doors, walkways, stairs, ramps, fire escapes, ladders, or other approved means or devices arranged in accordance with the general principles of the Code and as provided in the Building Code insofar as they can reasonably be applied to buildings under construction.
4.5.6.3 Flammable, hazardous, or explosive substances or equipment for repairs or alterations shall be permitted in a building while the building is occupied if the condition of use and safeguards provided do not create any additional danger or impediment to egress beyond the normally permissible conditions in the building and is such that materials are safeguarded when the building is unoccupied.

4.5.7* Changes of Occupancy.
4.5.7.1 In any building or structure, whether or not a physical alteration is needed, a change from one occupancy classification to another shall be permitted only where such a structure, building, or portion thereof conforms with the requirements of this Code, the provisions of the Building Code and applicable codes that apply to new construction for the proposed new use, except as follows:
(1) Where, in the opinion of the AHJ, the proposed occupancy or change in use is not more hazardous than the existing use, based on life safety and fire risk, the AHJ shall be permitted to approve such change of occupancy provided compliance with the requirements of this Code
for buildings of like occupancy or use are specifically incorporated to safeguard the life; health, and welfare of persons.

(2) Change of tenants or ownership shall not be construed to be a change of occupancy classification where the nature of use and assigned occupancy classification remain the same.

4.5.7.2 Where specifically permitted elsewhere in the Code, existing construction features shall be permitted to be continued in use in conversions.

4.5.9 Noncombustible Material. A material that complies with any one of the following shall be considered a noncombustible material:

(1) The material, in the form in which it is used and under the conditions anticipated, will not ignite, burn, support combustion, or release flammable vapors, when subjected to fire or heat.

(2) The material is reported as passing ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C.

(3) The material is reported as complying with the pass/fail criteria of ASTM E 136 when tested in accordance with the test method and procedure in ASTM E 2652, Standard Test Method for Behavior of Materials in a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750°C. [5000: 7.1.4.1]

4.5.9.2 Where the term limited-combustible is used in this Code, it shall also include the term noncombustible. [5000: 7.1.4.1.2]

4.5.10 Limited-combustible Material. A material shall be considered a limited-combustible material where both of the following conditions of 4.5.10.1, and 4.5.10.2, and the conditions of either 4.5.10.3 or 4.5.10.4, are met. [5000:7.1.4.2]

4.5.10.1 The material does not comply with the requirements for a noncombustible material in accordance with 4.5.9. [5000: 7.1.4.2(1)]

4.5.10.2 The material, in the form in which it is used, exhibits a potential heat value not exceeding 3500 Btu/lb (8141 kD/kg) where tested in accordance with NFPA 259, Standard Test Method for Potential Heat of Building Materials. [5000:7.1.4.2(2)]

4.5.10.3 The material has a structural base of a noncombustible material with a surfacing not exceeding a thickness of 0.1 inch (3.2 mm) where the surfacing exhibits a flame spread index not greater than 50 when tested in accordance with ASTM E 84, Standard Test Method or Surface Burning Characteristics of Building Materials, or ANSI/UL 723, Standard for Test for Surface Burning Characteristics of Building Materials. [5000:7.1.4.2.1]

4.5.10.4 The material is composed of materials which, in the form and thickness used, neither exhibit a flame spread index greater than 25 nor evidence of continued progressive combustion when tested in accordance with ASTM E 84 or ANSI/UL 723, and. are of such composition that all surfaces that would be exposed by cutting through the material on any plane would neither exhibit a Ramie spread index greater than 25 nor evidence of continued progressive combustion when tested in accordance with ASTM E 84 or ANSI/UL 723. [5000: 7.1.4.2.2]
**Chapter 5 Performance Based Option.** Chapter 5 Delete in its entirety and replace with the following:

5.1* General.

5.1.1 Application. The requirements of this Chapter shall apply to facilities designed to the performance-based option permitted by the Building Code and this Code.

5.1.2 Goals and Objectives. The performance-based design shall meet the goals and objectives of this Code in accordance with the Building Code or this Code.

5.1.4* Plan Submittal Documentation. When a performance based design is submitted to the AHJ and the Building Official for review and approval, the owner shall document, in an approved format, each performance objective and applicable scenario, including any calculation methods or models used in establishing the proposed design’s fire and life safety performance.

5.1.5* Independent Review. The AHJ shall be permitted to require an approved, independent third party to review the proposed design and provide an evaluation of the design to the AHJ at the expense of the owner.

5.1.7 Final Determination. The AHJ and the Building Official shall make the final determination as to whether the performance objectives have been met.

5.1.8* Operations and Maintenance Manual. An approved Operations and Maintenance (O&M) Manual shall be provided by the owner to the AHJ and shall be maintained at the facility in the fire command center.

5.1.9* Information Transfer to the Fire Service. Where a performance-based design is approved and used a registered design professional shall ensure that information regarding the operating procedures of the performance-based designed fire protection system is transferred to the owner and to the AHJ for inclusion in the pre-fire plan.

5.1.10* Design Feature Maintenance.

5.1.10.1 The design features required for the facility to meet the performance goals and objectives shall be maintained by the owner and be readily accessible to the AHJ for the life of the facility.

5.1.10.2 The facility shall be maintained in accordance with all documented assumptions and design specifications.
5.1.10.2.1 Any proposed changes or variations from the approved design shall be approved by the AHJ and the building inspector prior to the actual change.

5.1.10.2.2 Any approved changes to the original design shall be maintained in the same manner as the original design.

5.1.11* Annual Certification, Where a performance-based design is approved and used, a registered design professional shall annually certify to the AHJ and the Building Official that the design features and systems have been maintained in accordance with the approved original performance-based design and assumptions and any subsequent approved changes or modifications to the original performance-based design.

5.7.3 Facility Design Specifications. All details of the proposed facility design that affect the ability of the facility to meet the stated goals and objectives shall be documented.

Chapter 6 Classification of Occupancy Chapter 6 Delete in its entirety.

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Chapter 10 General Safety Requirements.

10.1.2*. Delete

10.1.3. Replace with the following:
10.1.3 Building Code. All new construction shall comply with this Code and the Building Code.

10.1.4.1. Replace with the following:
10.1.4.1 Where structural elements have visible damage, the AHJ shall notify the Building Official.

10.1.4.2. Delete

10.1.5. Delete

10.3.4.1. Replace with the following:
10.3.4.1 In any building or structure, whether or not a physical alteration is needed, a change from one use or occupancy classification to another shall comply with the Building Code.

10.4.2.1. Add
10.4.2.1 Overcrowding. Overcrowding or admittance of any person beyond the established posted occupant load shall be prohibited. The AHJ, upon finding overcrowded conditions or obstructions in aisles, passageways or other means of egress, or any condition which constitutes a hazard to life and safety shall cause the performance, presentation, spectacle or entertainment to be stopped until the area posted occupant load is re-established or the obstruction or hazardous condition is removed.

10.5.1. Replace with the following:
10.5.1 Where Required. Emergency egress and relocation drills conforming to the provisions of this Code shall be conducted as specified by the provisions of Chapter 20 of this Code. Drills shall be designed in cooperation with the local authorities.

10.5.2*. Replace with the following:
10.5.2 Drill Frequency. Emergency egress and relocation drills, where required by Chapter 20 of this Code shall be held with sufficient frequency to familiarize occupants with the drill procedure and to establish conduct of the drill as a matter of routine. Drills shall include suitable procedures to ensure that all persons subject to the drill participate.

10.6.2. Delete

10.6.4. Delete

10.7. Add
10.7 Tampering with Fire Safety Equipment. See M.G.L. c. 266 and M.G.L. c. 148 § 27A.

10.7.1 through 10.7.3. Delete

10.8.1. Replace with the following:
10.8.1 Where required. Emergency action plans shall be provided for high-rise, health care, ambulatory health care, residential board and care, assembly, day care centers, special amusement buildings, hotels and dormitories, housing for the elderly for 6 or more dwelling units, detention and correctional occupancies, educational, bulk merchandising retail buildings, underground and windowless structures, facilities storing or handling materials covered by Chapter 60, or where required by the AHJ.

10.10. Replace with the following:
10.10 Open Flame, Candles, and Outdoor Fires.

10.10.1.1. Replace with the following:
10.10.1.1 Fires for cooking and recreational purposes shall comply with the provisions of M.G.L. c. 48 § 13 and the rules and regulations of the State Forester and regulations of the Department of Environmental Protection.

10.10.1.2 through 10.10.1.4. Delete

10.10.3.1*. Replace with the following:
10.10.3.1 Outdoor fires shall comply with the provisions of M.G.L. c. 48 § 13 and the rules and regulations of the State Forester, and regulations of the Department of Environmental Protection. See 310 CMR 7.07.

10.10.3.2. Delete

10.10.4.1. Delete
10.10.4.1.1. Add
10.10.4.1.1 Bonfires and the Burning of Christmas Trees. Permits where required, for bonfires and the burning of Christmas trees shall comply with Section 1.12.

10.10.4.1.1.1 Add
10.10.4.1.1.1 Ceremonial Bonfires. The city council of a city with the approval of its mayor, or the board of selectmen or town council of a town, may authorize the fire department of such city or town to issue not more than one permit in any one year for a ceremonial bonfire. Such bonfires shall mark the observance of a significant municipal, state or national event, and such ceremonial bonfire shall be under the continuous supervision of the fire department. Only wood which has not been painted, impregnated, or otherwise treated with any foreign substance shall be permitted to burn in ceremonial bonfires. No bonfire shall burn for more than 12 hours. (M.G.L. c. 111, § 142H.)

10.10.4.1.1.2 Add
10.10.4.1.1.2 Bonfires from July 2 to July 6. Any civic, fraternal, veteran, community or business organization may build and ignite bonfires under the supervision and control of the fire department of the city or town in which such burning takes place during the period from July 2 to July 6. (M.G.L. c. 111, § 142I.)

10.10.4.1.1.3 Add
10.10.4.1.1.3 Burning of Christmas Trees. Any person may burn Christmas trees during the period from December 26 to January 7, provided that such burning is under the supervision and control of the fire department. (M.G.L. c. 111, § 142G.)

10.10.4.1.1.4 Add
10.10.4.1.1.4 Burning hours shall be prescribed by the AHJ.

10.10.4.2. Delete

10.10.4.3 through 10.10.5.2. Delete
10.10.6. Replace with the following:
10.10.6 Appliances-Cooking.

10.10.6.1 through 10.10.6.2. Replace with the following:
10.10.6.1 General. Cooking appliances shall be kept clean during and cleaned after each use. Cooking appliances shall never be left unattended after the cooking appliance is kindled. Cooking appliances shall be stored only after the appliance is cleaned; the appliance is cool to the human touch and; the fuel is disconnected and removed from the appliance. Cooking appliances shall not be altered, used, kindled, placed, or stored in a manner that is not established by the manufacturer’s instructions of the appliance and its equipment.

10.10.6.2 Terms. As used in Chapter 10, the enclosed terms shall have the following meaning assigned to them.

1) Appliance (cooking). Utilization equipment, generally other than industrial, that is normally built in standardized sizes or types and is used, installed or connected as a unit to perform one or more functions such as grills, ranges, cook top units, wall ovens, and chimineas or similar such appliances.

2) Balcony. A structure attached to a building with no exterior stairs other than through the attached building.

3) Deck, (including porches, and patios). A structure attached to a building where constructed above grade has exterior stairs extending to grade.

4) Equipment (Cooking). The component of an appliance, such as the hose, burner, heating element, electronic controls, igniters, heat exchanger, container or regulator that is designed specifically for the purpose and constructed with approved safety standards and tested by a recognized product testing agency. See Chapter 3, for the term Listed 3.2.6*.

5) Grade (as it applies to balconies and decks). On earth; or on blocks, slab or of other approved material placed on earth and elevated not greater than 30 inches from earth.

6) Permanent. Fastened in place, and cannot be easily moved without requiring the disconnection of fasteners, piping, and fittings.
(7) **Solid Fuel.** Includes wood, charcoal, pellet fuels, and any other non-gaseous fuel but not including fuel generation or co-generation of electric energy.

**10.10.6.3.** Add

**10.10.6.3 Solid Fuel, Gaseous Fuel, and Electric Cooking and Heating Appliances Use and Storage on Balconies and Decks or under Overhangs and Structures.**

**10.10.6.3.1 through 10.10.6.3.7.** Add

**10.10.6.3.1** All cooking and heating appliances shall be permitted to be used, kindled, or stored on a balcony or deck unless specifically prohibited or restricted below.

**10.10.6.3.2** No solid fuel cooking and heating appliances shall be permitted to be used, kindled, or stored on any balcony.

**10.10.6.3.3** No gaseous fuel cooking and heating appliances shall be used, kindled, or stored on any balcony located above grade, unless permitted to be permanently installed pursuant to its equipment listings.

**10.10.6.3.4** No cooking or heating appliances shall be used, installed, kindled or stored on any fire escape balcony.

**10.10.6.3.5** No cooking or heating appliances shall be used, installed, kindled or stored on any balcony or deck where the balcony or deck is enclosed by a roof, walls, other than the wall of the attached building, or any covering that would prevent air circulation, unless a sprinkler system is installed in accordance with the *Building Code*, or such appliance is permitted by the manufacturer’s instructions and equipment listings.

**10.10.6.3.6** No equipment of any cooking and heating appliances shall be permitted to be used or stored under any overhang; less than 10ft (3m) from a building; unless a sprinkler system is installed in accordance with the *Building Code*; or it is permitted by the manufacturer’s instructions and equipment listings. The storage of any cooking or heating appliances under the overhang or 10ft (3m) from a building shall be permitted only when its fuel is not present within or near any cooking or heating appliance, unless such appliance is permanently installed.

**10.10.6.3.7** All appliances that are permanently installed shall be approved by the specialized code official.

**10.10.6.4.** Add

**10.10.6.4 LP-Gas Containers (cylinders) 1-lb or Greater, Use, Placement at Dwellings.**

**10.10.6.4.1 through 10.10.6.4.4.** Add
**10.10.6.4.1** Containers shall only be transported using exterior means independent from the attached building.

**10.10.6.4.2** Containers shall not be placed inside or pass through any building.

**10.10.6.4.3** Containers shall not be stored or obstruct ingress or egress of any building.

**10.10.6.4.4** Containers having water capacities greater than 2.7 lb (1 kg) [nominal 1 lb (0.5 kg) LP-Gas capacity] shall not be located on decks or balconies of dwellings of two or more living units above the first floor unless the deck or balcony is served by exterior stairways.

**10.10.6.** Add

**10.10.6** *Table 10.10.6 shall be permitted to be used as guidance for the above Sections 10.10.6.3.1 through 10.10.6.4.*

**Table 10.10.6 Appliances Cooking/Heating**

<table>
<thead>
<tr>
<th>Balcony See 10.10.6.2(2)</th>
<th>Deck, Porch, Patio. See 10.10.6.2(3)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of Appliance</strong></td>
<td><strong>Fuel</strong></td>
</tr>
<tr>
<td><strong>Grade</strong></td>
<td>Cooking and Heating Appliance</td>
</tr>
<tr>
<td>Above Grade</td>
<td>Permitted*</td>
</tr>
<tr>
<td></td>
<td>See 10.1.7; 10.10.6.3.4 and 10.10.6.4</td>
</tr>
</tbody>
</table>

*NOT Permitted under overhangs, roofs or enclosed in by walls or within 10’ of a building; unless sprinklered pursuant to the Building Code.

**Note 1.** For the purposes of this section a structure or building is not considered the decking of a balcony, or deck.

**10.10.8 through 10.10.8.3.** Delete

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10.10.9.1*. Replace as follows:
10.10.9.1 Welding torches, tar pots, and other devices, machines, or processes liable to start or cause fire shall not be operated or used in or upon any areas, except by permit from the AHJ.

10.11.1.3. Delete

10.11.3.1. Replace with the following:
10.11.3.1 Enclosed stairs serving three or more stories and existing enclosed stairs serving five or more stories shall be maintained in accordance with the Building Code approved at the time of construction and maintenance.

10.11.3.1.1 through 10.11.3.1.16. Delete

10.11.3.2 through 10.11.3.2.2. Delete

10.11.3.3. Replace with the following:
10.11.3.3 Stairway Tread Marking. Where new contrasting marking is applied to stairs, such marking shall be maintained in accordance with the provisions of the Building Code in effect at the time of construction and maintenance.

10.11.3.3* (1) through (4). Delete

10.11.3.4. Delete

10.11.4. Add
10.11.4 Inner Courts Specialized Construction.

10.11.4.1 through 10.11.4.3. Add
10.11.4.1 Any inner court not protected by a roof shall have a parapet or guard at least 42 inches high.
10.11.4.2 Where a roof is provided over an inner court it shall be constructed as prescribed by the Building Code.
10.11.4.3 Where a skylight is provided it shall support a minimum of 40 lbs. per square foot, or shall have a parapet or guard at least 42 inches high.

10.12. Replace with the following:
10.12 Vacant Buildings and Premises.

10.12.1. Replace with the following:
10.12.1 Every person owning or having charge or control of any vacant building, premises, or portion thereof shall remove all combustible storage, waste, refuse, and vegetation and shall lock, barricade, or otherwise secure the building or premises to prohibit entry by unauthorized persons pursuant to M.G. L. c.143 §.6 through 14 and the Building Code.

10.12.1.1. Delete

10.12.2 through 10.12.2.2. Replace with the following:
10.12.2 All fire protection systems shall be maintained in service in vacant buildings.
10.12.2.1 With the approval of the AHJ, fire protection and fire alarm systems in vacant buildings shall be permitted to be removed from service as provided in M.G.L c.148 § 27A.
10.12.2.2 When required by the AHJ, other systems or components pertaining to fire protection shall be maintained as provided in M.G.L c.148 § 27A.

10.12.4 through 10.12.4.9. Add
10.12.4 Any owner of a building who has been notified that said building shall be made safe or secure under the provisions of the Building Code, shall:
(1) Remove all materials determined by the Head of the Fire Department or Building Official to be dangerous in case of fire.
(2) Secure all floors accessible from grade utilizing one of the following methods so long as such method is approved by the Head of the Fire Department and Building Official in writing:
   (a) Secure all window and door openings in accordance with the U.S. Fire Administration, Arson Prevention Initiative Board Up Procedures continuously until such time as the building is reoccupied; or
   (b) Provide 24 hour watchman services, continuously until such time as the building is reoccupied; or
   (c) Provide a monitored intruder alarm system at the perimeter of all floors accessible from grade, continuously until such time as the building is reoccupied.
10.12.4.1 Said owner, as the case may be, shall notify the Building Official that the approved method chosen to secure the building has been incorporated.
10.12.4.2 Said owner shall allow the Building Official to enter the building for an inspection to ascertain that the building is secured and made safe. Said owner shall allow the Head of the Fire Department to enter the building.
10.12.4.3 The Building Official shall be supplied with records of maintenance and operation if the provisions of 10.12.4(2) (b) or (c) are used as provided in the Building Code.
10.12.4.4 The owner shall maintain any existing fire alarms or sprinkler systems unless written permission is obtained from the Head of the Fire Department in accordance with M.G.L. c. 148 § 27A to shut off or disconnect said alarms or systems.

10.12.4.5 The owner shall maintain utilities unless written permission is obtained from the Building Official to disconnect said utilities. Permission to disconnect utilities shall not be granted if it will result in inadequate heat to prevent freezing of an automatic sprinkler system or inadequate utilities to maintain any other protection systems.

10.12.4.6 The requirements of Section 10.12.4 do not prevent a Building Official from ordering or taking expeditious, temporary security measures in emergency situations pending the completion of the requirements of Section 10.12.4.

10.12.4.7 For the purposes of 10.12.4.6, an “emergency situation” shall be defined as: an unexpected incident, which by its very nature may present a threat to public safety personnel who may be required to affect a rescue effort or conduct fire extinguishment operations.

10.12.4.8 Upon refusal or neglect of said owner to comply with such notice, any Building Official acting under the authority of the Building Code, shall cause to be secured all window and door openings accessible from grade in accordance with the U.S. Fire Administration, Arson Prevention Initiative Board-Up Procedures or other equivalent procedure approved by the Head of the Fire Department, continuously until such time as the building is reoccupied.

10.12.4.9 Any building which has been made to conform to the provisions of Section 10.12.4 during vacancy may be reoccupied under its last permitted use and occupancy classification, provided that any systems which were disconnected or shut down during the period of vacancy are restored to fully functional condition and subject to the Building Code and M.G.L. c. 40A. The Building Official shall be notified in writing prior to re-occupancy. If said building is changed in use or occupancy or otherwise renovated or altered it shall be subject to the applicable provisions of the Building Code.

10.12.5 through 10.12.5.5. Add

10.12.5 Any building determined to be especially unsafe in case of fire, under the provisions of the Building Code shall be identified and caused to be marked by the Building Official, with the cooperation of the Head of the Fire Department, to indicate the degree of hazard.

10.12.5.1 In marking such buildings, the following symbols shall be used:

- This symbol shall mean that interior hazards exist to such a degree that interior operations shall be conducted with extreme caution. This symbol shall not in any way limit the discretion of the on scene Incident Commander in directing operations that the Incident Commander deems necessary.
This symbol shall mean that exterior or interior hazards exist to such a degree that consideration should be given to conduct operations from the exterior only. This symbol shall not in any way limit the discretion of the on scene Incident Commander in directing operations that the Incident Commander deems necessary.

10.12.5.2 Markings shall be applied on the front of the building at or above the second floor level, where practical, between openings such that they are visible from the street. Markings may be applied to the sides or the rear of a building if the Head of the Fire Department deems such placement necessary. Markings shall also be applied in a conspicuous place near every entrance, and on penthouses. Markings shall not be applied over doors, windows, or other openings where they may be obscured by smoke or fire.

10.12.5.3 Markings shall be a minimum of 24 inches by 24 inches. Markings shall either be on a placard with a reflective background or painted with a reflective paint of contrasting color directly on the surface of the building. Stripes and borders outside of the marking shall be a minimum of two inches wide.

10.12.5.4 All markings shall bear a date as to when applied or the date of the most recent inspection.

10.12.5.5 Prior to receiving a mark, all buildings shall be inspected thoroughly by the Head of the Fire Department.

Table 10.13.1.1. Replace with the following:

<table>
<thead>
<tr>
<th>Occupancy</th>
<th>No Tree Permitted</th>
<th>Cut Trees permitted Sprinkler System Required</th>
<th>Cut Trees permitted W/O Sprinkler System</th>
<th>Balled Tree Permitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambulatory health care</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Apartment Buildings</td>
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<td>X Within the unit</td>
<td>X Within the unit</td>
</tr>
<tr>
<td>Assembly</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board and care</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td></td>
<td>X</td>
<td></td>
<td>X With Automatic Sprinklers</td>
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<tr>
<td>Daycare</td>
<td>X</td>
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<td></td>
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</tr>
<tr>
<td>Health care</td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>
### UNOFFICIAL
Massachusetts Amendments to NFPA ®1, 2015

<table>
<thead>
<tr>
<th>Occupancy</th>
<th>No Tree Permitted</th>
<th>Cut Trees permitted Sprinkler System Required</th>
<th>Cut Trees permitted W/O Sprinkler System</th>
<th>Balled Tree Permitted</th>
</tr>
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<td>Lodging and rooming</td>
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<td>X</td>
<td></td>
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<tr>
<td>Mercantile</td>
<td>X</td>
<td></td>
<td>X With Automatic Sprinklers</td>
<td></td>
</tr>
</tbody>
</table>

**10.13.10.4. Add**

**10.13.10.4.1 The Use of Mulch.**

**10.13.10.4.1** through **10.13.10.4.2. Add**

**10.13.10.4.1** Mulch shall not be newly applied within 18 inches of any combustible portion of any building [See Figure 10.13.10.4.1(a) below].

*Exception: Any building, regardless of the existence of fire separations, containing six (6) dwelling units or less.*

**10.13.10.4.2** Mulch as used here shall mean any type of forest material that is produced for the purpose spreading or application over the surface of the soil as a protective cover, to retain moisture, reduce erosion, provide nutrients, and suppress weed growth, seed germination and for general landscaping purposes.

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
10.14. Replace with the following:
10.14 Outdoor Events, Carnivals, and Fairs.

10.14.1. Delete

10.14.4. Delete

10.14.6. Replace with the following:
10.14.6 Smoke and Carbon Monoxide Detection. A minimum of one single station smoke alarm and CO detector shall be located within each sleeping area in all stock or equipment trailers when they are used for sleeping purposes.

10.14.11.1. Delete

10.15. Replace with the following:
10.15 Storage.
10.15.1.1. Add
10.15.1.1 A person shall not store in any building or upon any premises more than 2,500 cubic feet gross volume of combustible empty packing cases, boxes, barrels or similar containers; or rubber tires, baled cotton, rubber, cork or other similarly combustible material without having obtained a permit from the Head of the Fire Department.

10.15.1.2. Add
10.15.1.2 Permit. Permits, where required, shall comply with Section 1.12.

10.15.2. Replace with the following:
10.15.2 The storage of combustible or flammable material shall be confined to approved storage areas.

10.15.2.1 Add
10.15.2.1 Permits. Permits, where required, shall comply with Section 1.12.

10.15.3 Replace with the following:
10.15.3 Inside Storage. Storage in buildings and structures shall be orderly, shall not be within two feet of the ceiling, and shall be located so as not to obstruct egress from the building.

10.15.4 Replace with the following:
10.15.4 Outside Storage. The outside storage of combustible or flammable materials shall not be more than 20 feet in height and shall be compact and orderly. Such storage shall be located as not to constitute a hazard and no less than 25 feet from any other building on the site or from a lot line.

10.16 through 10.16.2. Delete

10.18.6 Replace with the following:
10.18.6 Attic, Under-Floor, and Concealed Spaces. Attic, under-floor, and concealed spaces used for storage of combustible materials shall comply with the protection from hazards requirements for storage rooms in the Building Code.

10.19 through 10.19.1.4. Delete

10.20 Add
10.20 Fumigation and Thermal Insecticidal Fogging. Any substance which by itself or in combination with any other substance emits or liberates a gas, fume or vapor used for the destruction or control of insects, fungi, vermin, germs, rats or other pests.

10.20.1 Add
10.20.1 Permit. Permits, where required, shall comply with Section 1.12.

10.20.2 Add
10.20.2 Fumigating Operations. Any building being so fumigated requiring a permit shall post at all entrances a warning sign of the fumigant hazard as described in 10.20.3.5.

10.20.3 Add
10.20.3 Fire Safety Requirements.
10.20.3.1 General. Any person conducting fumigation and thermal insecticidal fogging in any building, ship, vessel or enclosed space shall comply with the following fire protection and safety requirements.

10.20.3.2. Add
10.20.3.2 Sources of Ignition. All fires, open flames and similar sources of ignition shall be eliminated from the space under fumigation or thermal insecticidal fogging.

10.20.3.3. Add
10.20.3.3 Electricity. Electricity shall be shut off, except that circulating fans that are to be used shall be designed and installed so as not to create an ignition hazard. Electrical equipment shall be designed and installed in accordance with Massachusetts Electrical Code.

10.20.3.4. Add
10.20.3.4 Notification. The Head of the Fire Department shall be notified in writing at least 24 hours before any building or structure is to be closed in connection with the use of any toxic or flammable fumigant. Such notification shall give the location of the building, structure, ship or enclosed space to be fumigated or fogged as well as its character and use, the fumigants or insecticides to be used, the person or persons in charge of the operation and the date and time when fumigation or fogging will be started. Notice of any fumigation or thermal insecticidal fogging shall be served with sufficient advance notice to the occupants of any building or other enclosed space involved in the operation to enable them to evacuate the premises.

10.20.3.5. Add
10.20.3.5 Warning Signs. Suitable warning signs indicating the danger, type of chemical involved and recommended precautions, shall be posted on all doors and entrances to the premises and upon all gangplanks and larders from the deck, pier or land to the ship. Such notice is to be printed in red ink on white background. Letters in the signs are to be at least two inches in height and shall state the date and time of the operation, the name of the operator in charge, together with a warning to the effect that the premises so occupied shall be vacated at least one hour before the operation is started and shall not be re-entered until the danger signs have been removed by the proper authorities.

10.20.3.6. Add
10.20.3.6 Watchman. During the period fumigation is in progress, except when fumigation is conducted in a gastight vault or tank, a capable, alert watchman or watchmen shall remain on duty at the entrance or entrances to the building, ship or enclosed space fumigated until after the fumigation is completed and until the premises are properly ventilated and again safe for human occupancy. Sufficient watchmen shall be provided to prevent any person from entering the building, ship or enclosed space under fumigation without being observed.
10.20.3.7. Add
10.20.3.7 Thermal Insecticidal Fogging Liquids. Thermal insecticidal fogging liquids with a flash point below 100°F (38°C) shall not be used.

10.20.3.8. Add
10.20.3.8 Fire Protection Systems. Fire Protection system devices shall be adequately protected by covering or other means to isolate insecticidal fogging liquids from rendering a fire system device inoperable. (M.G.L. c. 148, § 27A)

10.21 Add
10.21 Canine Guards.

10.21.1. Add
10.21.1 Permit. Permits, where required, shall comply with Section 1.12.

10.21.2. Add
10.21.2 Any person having control of a mercantile, commercial or industrial establishment wherein canine guards are maintained, shall notify the Head of the Fire Department of the district, city or town within which such establishment is located, per MGL c.148 §28B, that such canine guard is maintained therein. The Head of the Fire Department and the person giving such notification shall cooperate in determining the procedure to be taken for the safety of authorized persons entering such mercantile, commercial or industrial establishment.

10.22. Add
10.22 Use and Storage of Alcohol Based Hand Rub Preparations.

10.22.1. Add
10.22.1 The use of wall-mounted or free-standing units used to dispense an alcohol based hand rub preparation shall comply with the following requirements:
(1) The maximum capacity of each dispenser shall be 41 ounces;
(2) The minimum separation distance between dispensers shall be 48 inches.

10.22.2. Add
10.22.2 No alcohol based hand rub preparation dispenser shall be located directly over or adjacent to any ignition source such as, but not necessarily limited to, electrical outlets, light fixtures or electrical appliances or any open flame device.

10.23 through 10.23.4.1. Add
10.23 Emergency Wash Stations.
10.23.1 Every school, college and university laboratory newly constructed or renovated, or any room used for similar purposes wherein corrosives or flammable liquids are handled or where open flame devices are used, shall be equipped with one or more Emergency Wash Systems.

10.23.2 Emergency Wash Systems shall include Drench/Deluge Showers, Hand Held Body/Face Washers and Deck Mounted Drench Hoses. The permanently mounted showers shall be located as close to the main door of the laboratory as possible (to provide an escape route), but shall not be located greater than 50 feet from an experimental area.

10.23.3 The Drench/Deluge Showers, Hand Held Body/Face Washers and Deck Mounted Drench Hoses shall be installed in accordance with ANSI Z358.1 and Board of State Examiners of Plumbers and Gas Fitters. Each existing laboratory not equipped with an Emergency Wash System shall be equipped with at least one approved Fire Blanket, and a sign that reads:

"In Case of Clothing Fire
STOP, DROP and ROLL"

10.23.4 The location of the Emergency Wash System Stations and Fire Blankets shall be clearly indicated by signs of contrasting color, either RED and WHITE or GREEN and WHITE. The signs shall be at least 70 square inches in area bearing the words "EMERGENCY WASH STATION", or "SAFETY SHOWER" or "FIRE BLANKET".

10.23.4.1 Every wash station shall be tested by the owner of the building or his designee twice annually (every six months) for proper flow and operation. The owner shall, upon request, provide the fire department with the test result, (including but not limited to): date of test, station operation, system malfunctions, and the name of the person performing the test.

10.23.4.2 Each student shall be advised of the location and proper use of the above emergency safety equipment by the teacher, instructor, or person in charge of the class before the first experiment is conducted.

10.23.4.3 Each student shall also be instructed in the proper procedure for the extinguishment of clothing fires at least twice during the course, as directed by the Head of the Fire Department.

10.23.4.3.1 The installation and operation of each safety device noted above shall be in order before the commencement of any class conducting laboratory experiments.

10.24. Add

10.24.1 through 10.24.2. Add
10.24.1 Whenever or wherever any device, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or any other feature is required for compliance with the
provisions of this Code, such device, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or other feature shall thereafter be continuously maintained. Maintenance shall be provided in accordance with this Code, the Building Code and applicable NFPA requirements, or requirements developed as part of a performance-based design.

10.24.2 No existing life safety feature shall be removed or reduced where such feature is a requirement for new construction. [101:4.6.12.2]

10.24.3 through 10.24.4. Add

10.24.3 Existing life safety features obvious to the public, if not required by this Code, shall be either maintained or removed as provided in M.G.L. c148 §.27A.

10.24.4 Any device, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or any other feature requiring periodic testing, inspection, or operation to ensure its maintenance shall be tested, inspected, or operated as specified elsewhere in this Code and the Building Code.

Chapter 11 Building Services

11.1 through 11.1.2.3. Delete

11.1.6 through 11.1.6.3.4. Delete

11.1.7.3 through 11.1.7.3.1. Delete

11.2 through 11.2.2. Delete

11.3 through 11.3.6.3.1.7. Delete

11.3.7. through 11.3.7(3). Delete:

11.5.1.1.1. Add

11.5.1.1 Terms. As used in Chapter 11 the enclosed terms shall have the following meaning assigned to them.

11.5.1.1.1 through 11.5.1.3.1. Add

11.5.1.1.1 Gravity Feed Burner. A burner which receives its fuel oil supply by static head pressure due to elevation of the supply source.
11.5.1.1.1.2 Post Purge Control. An electrical control that is designed to allow the power-venter or burner to operate after the burner flame has shut off, thus purging the vent system and heating appliance of combustion gases.

11.5.1.1.2 This Section shall not apply to fuel oil burners installed in steam boilers of nine horsepower and over and operated above 15 psi, but shall apply to the fuel oil storage.

11.5.1.1.3 Unsafe Heating Appliances. The Head of the Fire Department shall order the sealing (preventing the use) of any existing stove, oven, furnace, incinerator, boiler or any other heat producing device or appliance found to be defective or in violation of code requirements for existing appliances after giving 24 hours notice to this effect to any person, owner, firm, agent or operator in charge of same. However, the Head of the Fire Department shall seal any device or appliance without notice when inspection shows the existence of an immediate fire hazard or when imperiling human life. The sealed defective appliance shall remain withdrawn from service until all necessary repairs or alterations have been made.

11.5.1.1.3.1 Unauthorized Seal Removal. No person or user, firm or agent shall continue the use of any device or appliance which has been sealed or ordered sealed unless written authority to remove said seal is given by the Head of the Fire Department.

11.5.1.10.5 through 11.5.1.10.10.5. Add

11.5.1.10.5 General Requirements.
(1) Installation. All fuel oil burners and all equipment in connection therewith shall be installed and maintained in accordance with the manufacturer’s installation and operation manual. Chimneys, connectors, direct vent systems and power-venters shall also be installed in accordance with the Building Code.

(a) A person holding a certificate of competency as an oil burner technician may connect or disconnect for the purpose of repair or replacement, any device or control required by this Code to be part of an oil burner installation, or being an integral part of the oil burning equipment, at the connection on such device, control or part to be repaired or replaced, notwithstanding any contrary provision of M.G.L. c.141.

(b) Any person licensed as an electrician under M.G.L. c.141 may do any electrical work in connection with the alteration, repair, or installation of oil burning equipment without being certified as an oil burner technician.

(2) Automatic Shut Off. An approved automatic means to prevent abnormal discharge of fuel oil shall be provided for any fuel oil burner for which a competent attendant will not be constantly on duty in the room where the burner is located.

(3) Exposure to Fire. If any oil tank, oil burner, oil burner control or wiring related to an oil burner has been exposed to fire and is suspected of being damaged, the entire installation shall be made inoperative by the Head of the Fire Department who shall so notify the owner or occupant of the building or structure. Said installation shall not be operated until approved by the Head of the Fire Department.
(4) **Tank Removal.** Unless otherwise provided for in Chapter 66, a permit shall be obtained, in accordance with 1.12.8.2, from the Head of the Fire Department for the removal of a fuel oil storage tank. Any person removing a fuel oil storage tank from inside a building for a purpose other than replacement or repair, shall remove all fill and vent pipes.

(5) **Fuel Oil.** The grade of fuel oil used for any fuel oil burner shall be one which tests and experience have been shown to be suitable for use with that burner, but in no case shall the grade of fuel oil be heavier than that for which the burner has been designed or adjusted.

(6) **Gravity Feed to Burners.** Gravity feed shall be used only with a burner arranged to prevent abnormal discharge of oil at the burner by automatic means specifically approved for the burner in which it is used.

(7) **Fuel Oil Delivery.** Fuel oil shall not be delivered to any storage tank unless the deliverer has knowledge that a permit has been obtained in accordance with 1.12.8.2. Fuel oil shall not be delivered to a storage tank by means of a pump or under pressure in any case where a tight connection is made between the discharge line and the tank inlet, unless such storage tank is designed to withstand the additional stress to which it may be subjected or unless the vent pipe for such tank is of sufficient size to relieve the tank of any undo pressure in excess of five psi. The delivery truck operator shall remain at the fill point during the entire operation.

(8) Fuel oil equal to the maximum capacity of the storage tank may be delivered without such a permit being in effect whenever an oil burner installation is first made, provided that an application has been made in accordance with 1.12.8.2.

(9) **Connection.** Cross connection of oil supply and return lines to two or more supply tanks to the same burner shall be acceptable and shall be made by a pipe no smaller than ½ inch iron pipe or ½ inch O.D. tubing.

(10) Two supply tanks may be provided with a single fill and a single vent provided:
(a) The fill and vent pipes are not connected to the same tank;
(b) The crossover pipe is a minimum two inch diameter with swing joints and a ground joint union;
(c) The vent to the outside is a minimum two inch diameter.

(11) Tanks shall be mounted on a continuous concrete slab extending eight inches beyond the perimeter of the tank or tanks.

11.5.1.10.5.1 **Permit.** Permits, where required, shall comply with Section 1.12.

11.5.1.10.6 **Unenclosed Tanks: Installation Inside Buildings.** When tanks are installed inside garages or other areas subject to vehicular impact, physical barriers shall be provided. The physical barrier shall consist of substantial pipes, or similar barriers.
11.5.1.10.7 Tanks Installations Outside of Buildings.
(1) Tanks installed outside of buildings shall be mounted on a continuous concrete slab at least four inches in thickness and extending eight inches beyond the perimeter of the tank or tanks.
(2) Tanks installed outside of buildings shall be securely supported by rigid noncombustible supports to prevent settling, sliding or lifting.

11.5.1.10.8 Fill and Vent Piping.
(1) Vent pipes shall terminate outside of buildings at a point not less than two feet (0.6m) measured vertically or horizontally from any building opening.
(2) Outer ends of vent pipes shall terminate in a weatherproof vent cap or fitting or be provided with a weatherproof hood. All vent caps shall have a minimum free open area equal to the cross sectional area of the vent pipe and shall not employ screens finer than four mesh. Vent pipes shall terminate at least three feet from grade to avoid being obstructed with snow and ice. Vent pipes from tanks containing heaters shall be extended to a location where oil vapors discharging from the vent will be readily diffused. If the static head with a vent pipe filled with oil exceeds ten psi (70 kPa), the tank shall be designed to withstand the maximum static head which will be imposed.
(3) A fixed sash window shall not be considered an opening for the purpose of this Section.

11.5.1.10.9 Oil Gauging. All storage tanks in which a constant level of oil is not maintained by an automatic pump shall be equipped with a method of determining oil level. On cross connected tanks provided with a single fill and single vent, the gauge shall be installed on the tank vented to the outside.

11.5.1.10.10 Oil Burners, Light Fuel Oil Type.
11.5.1.10.10.1 Oil Supply and Return Lines.
(1) All threaded joints and connections shall be made tight with suitable lubricant or pipe compound. Teflon tape shall not be used. Unions requiring gaskets or packings, right or left couplings, and sweat fittings employing solder having a melting point of less than 500°F (260°C) shall not be used in oil lines. Compression type fittings shall not be used. Exception: Mechanical connections on tubing of the flare type or gaugeable, two ferrule, swage type fittings are acceptable.
(2) Oil supply lines shall be rigidly secured in place and protected from injury and shall be protected against corrosion. All new oil supply lines in direct contact with concrete or earth shall be enclosed with a continuous nonmetallic sleeve that extends out of the concrete or earth a minimum of four inches on each end. Perimeter lines may be placed in an outer protective covering, in addition to the continuous non-metallic sleeve, when subject to physical damage.
(3) A person holding a certificate of competency as an oil burner technician may connect or disconnect for the purpose of repair or replacement, any device or control required by this Code to be part of an oil burner installation, or being an integral part of the oil burning.
equipment, at the connection on such device, control or part to be repaired or replaced, notwithstanding any contrary provision of M.G.L. c.141.

(4) Any person licensed as an electrician under M.G.L. c.141 may do any electrical work in connection with the alteration, repair or installation of oil burning equipment without being certified as an oil burner technician.

(5) On existing installations, whenever a burner, boiler, furnace or tank is replaced, the oil supply line shall either be replaced or enclosed with a continuous sleeve as for new installations or a listed oil safety valve shall be installed at the tank end of the oil supply line in accordance with the manufacturer’s instructions.

(6) An oil safety valve and continuous nonmetallic sleeve is not required when:

(a) The oil supply and return lines are not in direct contact with concrete, earth or any floor surface.

(b) When the burner is located above the oil supply tank and the entire oil supply line is connected to, and above the top of the tank.

(7) Every owner of a residential property defined as a one to four dwelling unit used for living or sleeping (M.G.L. c. 148 § 38J) with oil supply and return lines not enclosed with a continuous non-metallic sleeve or equipped with a listed oil safety valve, shall either replace the line and enclose it with a continuous sleeve as for new installations or shall have a listed oil safety valve installed at the tank end of the supply line in accordance with the manufacturer’s instructions.

(8) Nothing in this Code shall prohibit overhead installation of oil supply and return lines or cross connection of oil supply lines from multiple tanks.

(9) Oil supply lines and return lines to tanks exposed to freezing temperatures shall be connected to the top of the tank. This shall not apply to gravity feed oil burners using #1 fuel oil, range oil or kerosene.

(10) Oil supply lines shall be properly reamed and joints and connections shall be made oil tight.

11.5.1.10.10.2 Oil Pumps and Valves.

(1) Only readily accessible hand operated, fusible, spring loaded valves of an approved automatic type shall be installed in the oil supply line, one near each burner and one close to each supply tank so as to automatically stop the flow of oil in case of fire. Manual opening and ball spring check valves shall not be permitted.
11.5.1.10.10.3 Oil Burner Controls.
(1) Each fully automatic oil burner having a firing rate of no more than 20 gallons per hour shall be equipped with a type of approved primary safety control which shall shut off the oil supply to the burner within 15 seconds if ignition is not established or in the event of flame failure after combustion has been established. Once combustion is established and in the event of flame failure, the oil supply shall be shut off to the burner within 3 seconds nominal unless the ignition is re-energized in not less than 0.8 seconds after flame extinguishment occurs. The installation of intermittent (formerly called constant) ignition primary safety controls shall not be permitted.
(2) Each automatically fired hot water heating boiler with heat input greater than 500,000 Btu per hour shall have a listed automatic low water fuel cutoff which has been designed for hot water service, so located as to automatically cut off the fuel supply when the surface of the water falls to the lowest safe permissible water level established by the boiler manufacturer.

11.5.1.10.10.4 Certificate and License Requirements for Repair or Replacement of Oil Burner Equipment. In accordance with M.G.L. c.148, § 10D, a person holding a certificate as an oil burner technician may connect or disconnect for the purpose of repair or replacement, any device or control required by rules and regulations of the board to be a part of an oil burner installation, or being an integral part of the oil burning equipment, at the connection on such device, control or part to be repaired or replaced, notwithstanding any contrary provision of M.G.L. c. 141. Any person licensed as an electrician under said M.G.L. c. 141 may do any electrical work in connection with the alteration, repair or installation of oil burning equipment without being certified as an oil burner technician.
(1) Oil burners electrically controlled, driven and/or operated shall be supplied from a separate branch circuit located at the service disconnect panel, or at branch circuit subpanel. This circuit shall be clearly marked for the equipment it controls.
(2) All protective, control and emergency devices shall be series connected from the electrical distribution panel, through the emergency switch, through the thermal switch, to the service switch in the ungrounded line conductors. The burner controls shall be installed in the ungrounded supply conductors of the circuit and shall not exceed 150 volts to ground.
(3) A control (service switch) to start and stop a light fuel oil burner shall be installed at a location where the operator can view the fire. The switch shall be located at a maximum of three feet from the burner.
(4) An electrical thermal switch fused to break the ungrounded conductor in the main circuit at 165°F, shall be installed in the main power line within six feet over the top of the burner boiler or burner furnace.
(5) If the ceiling above the burner boiler or burner furnace exceeds 12 feet in height, an additional thermal switch shall be installed at a height of 10 feet and connected in series with the lower switch.
(6) Electrical equipment shall not obstruct clear access to clean out and service panels.

11.5.1.10.5 Certificates. Certificates, where required, shall comply with Section 1.12.8.51.
11.5.1.11 through 11.5.1.11.2. Delete

11.5.2.1. Replace with the following:
11.5.2.1 The use of unvented kerosene burners and oil stoves is prohibited by M.G.L. c. 148 § 25B.

11.5.2.2. Delete

11.5.2.3. Delete

11.5.3.1. Delete

11.5.4. Delete

11.6. Replace with the following:
11.6 Rubbish, Laundry Chutes.

11.6.1.2. Replace with the following:
11.6.1.2 Instruction describing the size and type of waste which may be deposited in the chute shall be posted at each service opening.

11.6.2. Replace with the following:
11.6.2 Installation and Maintenance. Rubbish chutes and laundry chutes shall be installed and maintained in accordance with NFPA 82, Standard on Incinerators and Waste and Linen Handling Systems and Equipment, unless such installations are approved existing installations, which shall be permitted to be continued in service.

11.7.3.2. Delete

11.7.5.1.1 through 11.7.5.1.2.2. Add
11.7.5.1.1 A fuel quality test shall be performed at least annually using tests approved by ASTM standards.

11.7.5.1.2 Diesel fuel shall be tested in accordance with ASTM D 975-11b, Standard Specification for Diesel Fuel Oils, or ASTM D 6751-11b, Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels, as approved by the engine manufacturer, using ASTM D 7462-11, Standard Test Method for Oxidation Stability of Biodiesel (B100) and Blends of Biodiesel with Middle Distillate Petroleum Fuel (Accelerated Method). [25:8.3.4.1.1]

11.7.5.1.2.1 Where diesel fuel is found to be deficient in accordance with testing required in 11.7.5.1.2, the fuel shall be reconditioned or replaced, the supply tank shall be cleaned internally, and the engine fuel filter(s) shall be changed. [25:8.3.4.2]
11.7.5.1.2.2 After the restoration of the fuel and tank in 11.7.5.1.2.1, the fuel shall be retested every 6 months until experience indicates the fuel can be stored for a minimum of 1 year without degradation beyond that allowed in 11.7.5.1.2. [25:8.3.4.2.1]

11.8.6 through 11.8.9. Add
11.8.6 Smoke control systems shall be maintained to ensure to a reasonable degree that the system is capable of controlling smoke for the duration required. The system shall be maintained in accordance with the manufacturer’s instructions and the Building Code.
11.8.7 A routine maintenance and operational testing program shall be initiated immediately after the smoke control system has passed the acceptance tests. A written schedule for routine maintenance and operational testing shall be established.
11.8.8 A written record of smoke control system testing and maintenance shall be maintained on the premises. The written record shall include the date of the maintenance, identification of servicing personnel, and notification of any unsatisfactory condition and the corrective action taken, including parts replaced.
11.8.9 Dedicated smoke control systems shall be operated for each control sequence semiannually. The system shall also be tested under standby power conditions.
11.9 through 11.9.6. Delete

11.10.1. Delete

11.10.2. Replace with the following:
11.10.2 Two-way radio communication enhancement systems, when required, shall be maintained in accordance with Chapter 24 of NFPA 72.

11.10.3. Delete

11.12.2 through 11.12.2.1.4. Delete

11.12.2.1.16* through 11.12.3.3*. Delete

Chapter 12 Features of Fire Protection.

12.1. Replace with the following:
12.1 General. This chapter shall apply to existing, permanent, or temporary buildings.

12.2* through 12.2.2. Delete

12.3.1 through 12.3.2.2. Delete
12.3.3.1. Replace with the following:

12.3.3.1 Required fire-resistive construction, including fire barriers, fire partition, fire walls, exterior walls due to location on property, fire-resistive requirements based on type of construction, draft-stop partitions, and roof coverings, shall be maintained as constructed or permitted under the Building Code.

12.3.3.3 through 12.3.3.3.2. Delete

12.4.1. Replace with the following:

12.4.1 The installation and maintenance of assemblies and devices used to protect openings in walls, floors, and ceilings against the spread of fire and smoke within, into, or out of buildings shall comply with Section 12.4 and NFPA 80, Standard for Fire Doors and Other Opening Protectives and with the Building Code.

12.4.6.4 through 12.4.6.5. Delete

12.5.1 through 12.5.5.9. Delete

12.5.6.1 and 12.5.6.2. Delete

12.5.7* through 12.5.9.2. Delete

12.6.1. Delete

12.6.3. Replace with the following:

12.6.3 Furniture and Mattresses.

12.6.3.1*(3). Add


12.6.3.2.1*. Replace with the following:

12.6.3.3* Where required by the applicable provisions of this Code, upholstered furniture, unless the furniture is located in a building protected throughout by an approved automatic sprinkler system, shall have limited rates of heat release when tested in accordance with ASTM E 1537, Standard Test Method for Fire Testing of Upholstered Furniture, as follows:

(1) The peak rate of heat release for the single upholstered furniture item shall not exceed 80 kW.

(2) The total heat released by the single upholstered furniture item during the first 10 minutes of the test shall not exceed 25 MJ. [101:10.3.3]

12.6.3.2.2*. Replace with the following:

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
12.6.3.4* Where required by the applicable provisions of this Code, mattresses, unless the mattress is located in a building protected throughout by an approved automatic sprinkler system, shall have limited rates of heat release when tested in accordance with ASTM E 1590, Standard Test Method for Fire Testing of Mattresses, as follows:

1. The peak rate of heat release for the mattress shall not exceed 100 kW.
2. The total heat released by the mattress during the first 10 minutes of the test shall not exceed 25 MJ. [101:10.3.4]

12.6.3.5. Add

12.6.3.5 Seating shall not be purchased, leased or rented for use in a particular occupancy unless labeled or identified by the manufacturer.

12.6.3.5.1 through 12.6.3.5.1(3). Add

12.6.3.5.1 The following shall be exempt:

1. Cushions and pads intended solely for outdoor use.
2. Any article which is smooth surfaced and contains no more than ½ inch of filling material, provided that such article does not have a horizontal surface meeting vertical surface.
3. Articles manufactured solely for recreational use or physical fitness purposes, such as weight lifting benches, gymnasium mats or pads, side horses and similar articles.

12.6.3.6. Add

12.6.3.6 For spaces not protected by an approved sprinkler system, stackable molded plastic seating shall comply with ASTM E 1822, as modified. The test shall consist of a single chair, or prototypes thereof.

12.6.3.7. Add

12.6.3.7 Labeled Furniture

12.6.3.7.1 through 12.6.3.7.1(2). Add

12.6.3.7.1 The manufacturer shall affix a label to each article of regulated furniture that indicates:

1. The article of furniture is composed of materials that meet the performance test.
2. The nationally recognized testing laboratory and standards or publications as provided in this Code.

12.6.3.7.2. Add

12.6.3.7.2 The label shall be stitched or adhered onto each piece of regulated furniture.

12.6.3.8. Add

12.6.3.8 Documentation of Furniture.

12.6.3.8.1. Add

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
12.6.3.8.1 The building manager shall maintain documentation of furniture within the building.

12.6.3.8.2. Add
12.6.3.8.2 The documentation shall be made available to the AHJ upon request.

12.6.3.8.3 through 12.6.3.8(5). Add
12.6.3.8.3 The documentation shall include:
(1) The quantity and type of each article of furniture.
(2) Certification that the furniture items meet the performance requirements.
(3) The nationally recognized testing laboratory that conducted the tests.
(4) Descriptions of the upholstery cover fabric for each type of furniture within the inventory area, if the furniture is upholstered. The description of the upholstery cover fabric shall be provided by the fabric company or the chair manufacturer, and shall include fiber content, fabric type, fabric company name, and either a photo of the fabric for identification, or an actual fabric swatch, clearly labeled, at minimum size 2 in. x 2 in.
(5) Fire retardant treatment maintenance and compliance documentation, if applicable.

12.7.1 through 12.7.4.4. Delete

12.7.5. Replace with the following:
12.7.5 Penetrations. The provisions of 12.7.5 shall govern the materials and methods of construction used to protect through-penetrations and membrane penetrations in fire walls, fire barrier walls, and fire resistance rated horizontal assemblies. The provisions of 12.7.5 shall not apply to approved existing materials and methods of construction used to protect existing through-penetrations and existing membrane penetrations in fire walls, fire barrier walls, or fire resistance rated horizontal assemblies, in accordance with the Building Code.

12.7.5.1.1(4) Delete.

12.7.5.1.2. Replace with the following:
12.7.5.1.2 The maximum nominal diameter of the penetrating item, shall not be greater than 4 in. (100 mm) and shall not exceed an aggregate 100 in.² (64,520 mm²) opening in any 100 ft² (9.3 m²) of floor or wall area. [101: 8.3.5.1.2]

12.8.1*. Replace with the following:
12.8.1 General. Where required elsewhere in this Code, smoke partitions shall be maintained to limit the transfer of smoke.

12.8.2 through 12.8.2(3). Delete

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
12.9 through 12.9.7.5. Delete

Chapter 13 Fire Protection Systems.

13.1.1. Replace with the following:
   13.1.1 For alarms and systems regulated by this Code the AHJ shall have the authority to require that construction documents for all fire protection systems be submitted for review and approval and a permit be issued prior to the installation, rehabilitation, or modification in accordance with Section 1.14. Further, the AHJ shall have the authority to require that full acceptance tests of the systems be performed in the AHJ's presence prior to final system certification.

13.1.8. Replace with the following:
   13.1.8 No person shall shut off, disconnect, obstruct, remove, and/or modify a fire protection system or carbon monoxide protection system without first procuring a written permit in accordance with Section 1.12 from the AHJ. The AHJ shall be notified when any fire protection system is out of service and on restoration of service.

13.2.1 through 13.2.2.6*. Delete

13.3.1.1*. Replace with the following:
   13.3.1.1 Automatic sprinklers shall be installed and maintained in full operating condition in accordance with this Code and the applicable standard or document for such system referenced in Chapter 2.

13.3.1.4. Delete

13.3.2.1. Delete

13.3.2.8.1. Replace with the following:
   13.3.2.8.1 See M.G.L. c. 148 § 26G-1/2.

13.3.2.8.2. Delete

13.3.2.22.1.3. Replace with the following:
13.3.2.22.1.3 **High-Rise Buildings.** See M.G.L. c. 148 § 26A and 26A-1/2.

13.3.2.22.1.4 through 13.3.2.22.4.2 Delete

13.3.2.23.1 through 13.3.2.23.2. Delete

13.3.2.23.4 through 13.3.2.23.4.2.3. Delete

13.3.2.24.1. Replace with the following:
13.3.2.24.1 See M.G.L. c. 148 § 26.

13.3.2.25 through 13.3.2.30. Delete

13.4.3 through 13.4.3.2. Delete

13.6.1.1.3. Add
13.6.1.1.3 **Certificates.** Certificates, where required, shall comply with *Section 1.13.*

13.7 through 13.7.11. Delete this Section and Replace with the following:
13.7. **Smoke Alarms and Detectors, Permits, Massachusetts General Laws, Primary Power Sources, and Carbon Monoxide Protection Systems.**
13.7.1 For systems regulated by this *Code*, the AHJ shall have the authority to require construction documents for all fire protection and carbon monoxide systems to be submitted for review and approval and a permit to be issued prior to the installation, rehabilitation, or modification. Further, the AHJ shall have the authority to require that full acceptance tests of the systems shall be performed in the AHJ’s presence prior to final system certification.

13.7.2 **Permits.** Permits, where required, shall comply with *Section 1.12.*
13.7.2.1 For installations described in *Section 13.7* governed by permits issued, the applicable code shall be determined based on the date of issuance stated on the permit.
13.7.2.2 No person shall shut off, disconnect, obstruct, remove, and/or impair a fire protection system or carbon monoxide protection system without first procuring a written permit pursuant to *Section 1.12* as required by the AHJ.

13.7.3 **Massachusetts General Laws.**
13.7.3.1 For the purpose of compliance with M.G.L. c.148, §26E and §26F, smoke alarms shall be installed in accordance with the applicable requirements of *Section 13.7.*

13.7.4 **Smoke Detection.**
13.7.4.1 **General.** Where fire warning equipment is required by this *Code* to be installed in a building, such equipment shall be installed in accordance with *Massachusetts Electrical Code, NFPA 72: National Fire Alarm and Signaling Code* and *Section 13.7.*
13.7.4.2 Low voltage system batteries for smoke detectors shall be maintained in accordance with applicable Sections of NFPA 72 by the owner, landlord or superintendent.

13.7.4.3 Heat Detection
13.7.4.3.1 The Head of the Fire Department shall be permitted to require the installation and interconnection of heat alarms/detectors in unheated open porches with stairways. Where such heat alarm/detector is required, it shall be listed for such use.

13.7.5 Primary Power Source
13.7.5.1 Smoke alarms/detectors, and carbon monoxide alarms shall be permitted to have battery power as a primary source unless otherwise prohibited by applicable laws, codes, or standards.

13.7.5.1.1 Nonrechargeable, Nonreplaceable Battery Power Alarms/Detectors
(1) Photoelectric technology shall be required for smoke alarms and detectors
(2) A silence button shall be required on each smoke alarm, or detector device; within its control panel.
(3) Each smoke alarm and detector device shall be equipped with a nonrechargeable battery
(4) Each smoke alarm and detector device shall be equipped with a nonreplaceable battery
(5) All power requirements for all smoke alarms and detectors shall be met for at least 10 year of battery life, including weekly testing.
(6) All power requirements for combination alarms with smoke/carbon monoxide shall be capable of powering the unit for its service life, including testing.
(7) Household fire warning systems and smoke detectors shall receive their power in accordance with NFPA 72.

13.7.5.1.2 Battery Powered with Network Technology (wireless) Alarms/Detectors
(1) Photoelectric technology shall be required for smoke alarms/detectors
(2) All power requirements for all alarms and detectors are met for at least 1 year of battery life, including weekly testing.

13.7.5.1.3 Other Technologies and Nonrequired Devices
13.7.5.1.3.1 Where devices in Sections 13.7.5.1.1 and 13.7.5.1.2 have been installed, and placed, alarms and detectors having other technologies and or additional devices shall be permitted as provided in Section 13.7.5.1.3.1 (1) and (2).
(1) Other technologies that are part of the same unit shall be permitted with photoelectric technology.
(2) Nonrequired devices shall be permitted to be connected with required devices or installed within the same or different space, area, or location as provided in Table 13.7A, Table 13.7C and Table 13.7D, provided such devices have been installed in accordance with their applicable listings and have been tested, inspected and maintained pursuant to Section 10.24.

13.7.5.1.4 Types of Device.
13.7.5.1.4.1 The following types of device shall be required:
(1) A single station or multiple station alarm or;
(2) Detector or;
(3) A device as one unit with one or more technologies
(4) Types of devices listed in Section 13.7.5.1.4.1 (1) through (3) shall be pursuant to Table 13.7B

13.7.5.1.4.2 Device Requirements.
13.7.5.1.4.2.1 The following device requirements shall comply with the following:
(1) Devices shall be placed pursuant to Table 13.7A and Table 13.7C as applicable.
(2) Single station or multiple station alarms shall meet standard ANSI/UL217 as provided in Table 13.7B
(3) Smoke detectors shall meet standard ANSI/UL268 as provided in Table 13.7B
(4) Devices provided in 13.7.5.1.4.1 (1) through (3) with an integrally mounted heat detector shall meet the following standards as provided in Table 13.7B as applicable:
   (a) Standard ANSI/UL 521 that covers heat detectors for fire protective signaling systems
   (b) Standard ANSI/UL 539 that covers heat-actuated, single and multiple station heat alarms
(5) A combination device as a single unit with two or more technologies shall meet the following standards as provided in Table 13.7B and as provided below:
   (a) ANSI/UL 217 and ANSI/UL 2034 for combination alarms with smoke/carbon monoxide technologies;
   (b) ANSI/UL 268 and ANSI/UL 2075 for combination detectors with smoke /carbon monoxide technologies.
(6) A device shall be permitted to be a single or multiple station alarm or detector with smoke and or heat detection and or carbon monoxide and or intrusion technologies within the same unit provided all of the conditions listed below in Section 13.7.5.1.4.2.1 (6) (a) and (b) for alarms or (b) and (c) for detectors are met:
   (a) Combination devices with two or more technologies that are incorporated into one unit shall have simulated voice and tone alarm features which clearly distinguishes between two or more events such as carbon monoxide and smoke.
   (b) Fire alarm signal shall take precedence, even when a non-fire alarm signal is initiated first.
   (c) Combination detectors shall be permitted to satisfy requirements for both smoke and carbon monoxide detection required by this Code when listed in accordance with UL268 and UL 2075.
(7) Such Combination devices shall include both simulated voice and tone alarm features which clearly distinguishes between carbon monoxide and smoke notification, unless such system employs the following:

(a) Each such combination device produces a distinctive audile and visual alarm signal for smoke and carbon monoxide, in accordance with NFPA 72 and NFPA 720 and;

(b) A control unit or annunciator is installed displaying a distinctive alphanumeric message (digital or embossed) for smoke and carbon monoxide and;

(c) Where such control unit or annunciator is installed it shall be located in an accessible area within each dwelling unit and be visible at all times.

(d) For transient residential and institutional structures, such control unit or annunciator shall be located at the constantly attended location and shall be monitored.

---

Table 13.7A
Smoke Alarms and Detectors
Device, Placement, Power Supply, Type and Wiring
Household Fire Warning
For one and not more than two dwelling units
Pre-1975 -Dwellings-
Pursuant to MGL c. 148, § 26 E and § 26 F

<table>
<thead>
<tr>
<th>Device</th>
<th>(1) Smoke alarms/ detectors installed shall require photoelectric technology.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Placement</td>
<td>(2) Smoke alarms/ detectors shall be placed:</td>
</tr>
<tr>
<td></td>
<td>(a) on every habitable level</td>
</tr>
<tr>
<td></td>
<td>(b) on the basement level</td>
</tr>
<tr>
<td></td>
<td>(c) on the ceiling of each stairway leading to the floor above, but not within each stairway, at the base of each stairway, including stairways to an unfinished/unheated basement/cellar</td>
</tr>
<tr>
<td></td>
<td>(d) on ceiling outside of each separate sleeping area</td>
</tr>
<tr>
<td></td>
<td>(e) in common areas on ceilings</td>
</tr>
<tr>
<td>Power Supply</td>
<td>(3) Smoke alarms/detectors pursuant to M.G.L. 148, § 26 E:</td>
</tr>
<tr>
<td></td>
<td>(a) shall be permitted to have either battery or, primary power pursuant to M.G.L. c.148, § 26 E for their power supply:</td>
</tr>
<tr>
<td></td>
<td>(b) Smoke alarms/detectors that do not include a secondary power source and have a battery as its primary power source shall meet the power provisions and conditions as provided in 13.7.5</td>
</tr>
<tr>
<td>Type of Device</td>
<td>(4) Types of device shall be permitted to be a single station or multiple station alarm or detector, See Section 13.7.5.1.3</td>
</tr>
<tr>
<td>Type of Technology</td>
<td>(5) Technology</td>
</tr>
<tr>
<td></td>
<td>(a) Photoelectric shall be required see Sections 13.7.5.1.1 and 13.7.5.1.2</td>
</tr>
<tr>
<td></td>
<td>(b) Other types of technologies with required photoelectric technology, See Section 13.7.5.1.3</td>
</tr>
</tbody>
</table>
Wiring

(6) Non-interconnected smoke alarms/detectors shall be permitted within the dwelling unit
(7) Smoke/Heat alarms/ detectors:
(a) in a single family dwelling unit shall be permitted to be interconnected in basements
(b) in a two family dwelling unit shall be interconnected in common areas and in basements

NOTE 1. A dwelling as used here means one or more units providing facilities for cooking, sanitary, living, sleeping or eating.
NOTE 2. For compliance with M.G.L. c.148, §26F in existing buildings, 527 CMR 1.00: 1.1 may be applicable.

Table 13.7B
Listings for Smoke and Carbon Monoxide Alarms and Detectors

<table>
<thead>
<tr>
<th>Smoke and Carbon Monoxide alarms and detectors shall be listed as provided below.</th>
<th>Smoke Alarm and Detector</th>
<th>Heat Detection</th>
<th>Carbon Monoxide Smoke Alarms and Detectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoke Alarm and Detector</td>
<td>Heat Detection</td>
<td>Carbon Monoxide Smoke Alarms and Detectors</td>
<td></td>
</tr>
<tr>
<td>ANSI/UL 217 covers electrically operated single and multiple station smoke alarms.</td>
<td>ANSI/UL 539 covers heat-actuated, single and multiple station heat alarms.</td>
<td>ANSI/UL 2034 covers electrically operated single and multiple station carbon monoxide (CO) alarms.</td>
<td></td>
</tr>
<tr>
<td>ANSI/UL 268 covers smoke detectors for fire protective signaling systems</td>
<td>ANSI/UL 521 covers heat detectors for fire protective signaling systems.</td>
<td>ANSI/UL 2075 covers toxic and combustible gas and vapor detectors and sensors.</td>
<td></td>
</tr>
<tr>
<td>Combination smoke/carbon monoxide alarms shall be listed and labeled in accordance with ANSI/UL 217 and ANSI/UL 2034.</td>
<td>Combination smoke/carbon monoxide detectors shall be listed and labeled in accordance with ANSI/UL 268 and ANSI/UL 2075.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 13.7C
Smoke Alarms and Detectors
Device, Placement, Power Supply, Type and Wiring
Household Fire Warning
For three or more dwelling units but less than six
Pre-1975
-Dwellings-
Pursuant to MGL c. 148, § 26 E and § 26 F
(Not substantially altered to constitute new)

<table>
<thead>
<tr>
<th>Device</th>
<th>(1) Smoke alarms/detectors shall require photoelectric technology.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Placement</td>
<td>(2) Smoke alarms/detectors shall be placed:</td>
</tr>
<tr>
<td></td>
<td>(a) on every habitable level</td>
</tr>
<tr>
<td></td>
<td>(b) on the basement level</td>
</tr>
<tr>
<td></td>
<td>(c) on the ceiling of each stairway leading to the floor above, but not within the stair way, at the base of each stairway, including stairways to an unfinished/unheated basement/cellar</td>
</tr>
<tr>
<td></td>
<td>(d) on ceiling outside of each separate sleeping area</td>
</tr>
<tr>
<td></td>
<td>(3) Smoke alarms/detectors shall be placed in common areas on the ceiling</td>
</tr>
<tr>
<td></td>
<td>(4) Heat alarms/detectors required by Section 13.7.4.3 shall be placed:</td>
</tr>
<tr>
<td></td>
<td>(a) in open porches with stairs on the ceiling</td>
</tr>
<tr>
<td></td>
<td>(b) in common areas on the ceiling</td>
</tr>
</tbody>
</table>
## 10.7.5.1.3 Smoke Alarms/Detectors

### Power Supply

(5) Smoke alarms/detectors pursuant to M.G.L. 148, § 26 E:

(a) shall be permitted to have either battery or, primary power pursuant to M.G.L. c.148, § 26 E for their power supply for alarms/detectors;

(b) Smoke alarms/detectors that do not include a secondary power source and have a battery as its primary power source shall meet the power provisions and conditions as provided in 13.7.5.

(c) Common halls and basements shall have their power supply by primary power pursuant to M.G.L. c.148, § 26 E.

### Type of Device

(6) Types of device shall be permitted to be a single station or multiple station alarm or detector, See Section 13.7.5.1.3

### Type of Technology

(7) Technology

(a) Photoelectric shall be required see Sections 13.7.5.1.1 and 13.7.5.1.2

(b) Other types of technologies with required photoelectric technology, See Section 13.7.5.1.3

### Wiring

(8) Non-interconnected smoke alarms/detectors shall be permitted to be within the dwelling unit

(9) Smoke/heat alarms/detectors shall be interconnected in common areas and in basements

---

**NOTE 1.** A dwelling as used here means one or more units providing facilities for cooking, sanitary, living, sleeping or eating.

**NOTE 2.** For compliance with M.G.L. c.148, §26F in existing buildings, 527 CMR 1.00: 1.1 may be applicable.

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### 13.7.6 Carbon Monoxide Detection.

#### 13.7.6.1 General.

For the purposes of M.G.L. c.148, §26F ½, carbon monoxide detection shall be provided and installed in accordance with *Installation of Carbon Monoxide (CO) Detection and Warning Equipment* and Section 13.7.6.

#### 13.7.6.2 Every owner, superintendent or landlord of every structure that employs carbon monoxide alarm protection by utilizing one or more of the carbon monoxide protection technical options listed in Section 13.7.7 equipped-with a voice or annunciator as provided in Section13.7.6.5.1 shall prepare a written emergency plan that is in effect and available to all personnel. The plan shall be presented to and approved by the Head of the Fire Department.

1. The plan shall include at a minimum:
   1. (a) The development of a policy and procedure as a means to immediately communicate the alarm to the fire department;
   2. (b) An evacuation plan; and
   3. (c) A list of emergency contact phone numbers of responsible parties.

2. An annual review by the owner, superintendent or landlord of the plan with all employees, who shall be kept informed in respect to their duties and responsibilities under the plan;

3. Systems installed in accordance with Section 13.7.6.5.1 shall include information within each room indicating evacuation procedures in the event of an alarm condition.

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This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
13.7.6.3 Annually, the owner, superintendent or landlord of every structure shall submit to the Head of the Fire Department an updated emergency plan, record of inspection, maintenance and testing on a form prescribed by the State Fire Marshal.

13.7.6 Terms. As used in Chapter 13 the enclosed terms shall have the following meaning assigned to them.

13.7.6.1 Adjacent Spaces. Any area, space, room, or dwelling unit located directly next to, below, or above any area space, room, or dwelling unit that contains fossil fuel burning equipment or enclosed parking. It shall not include closets, bathrooms, cabinets, or similar areas used for storage or utility purposes and temporarily occupied for activities relating to such storage or utility use.

13.7.6.2 Centralized Fossil Fuel Burning Equipment. A central heating plant, hot water heater, a combustion driven generator or fire pump, central laundry equipment, roof mounted air handling unit or similar equipment that emits carbon monoxide as a by-product of combustion and does not allow for air exchange between centralized fossil fuel burning equipment and dwelling units or common areas.

13.7.6.3 Combination Device. A device that employs more than one technology within the same unit such as smoke and carbon monoxide.

13.7.6.4 Carbon Monoxide Device. A device intended for the purpose of detecting carbon monoxide gas and alerting occupants either by a distinct audible signal comprising an assembly that incorporates a sensor, control components and an alarm notification appliance in a single unit (alarm) or through a connection to an alarm control unit (detector).

13.7.6.5 Daycare Facility. A facility licensed by the Commonwealth under M.G.L. c.15D § 5,6,7 or regulations by the Department of Early Education and Care as a Child Care Center, School Aged Child Care Program, or Family Child Care Home, including Large Family Child Care and Family Child Care Plus.

13.7.6.6 Dwelling Unit. As used in Table 13.7D means a single unit providing facilities for living and sleeping and used for residential purposes, unless specifically identified otherwise.

13.7.6.7 Enclosed Parking. A structure or an area or room, or floor or level thereof, enclosed within an overall building or structure or attached thereto that is designed or used for the parking of vehicles and does not comply with the minimum exterior wall opening requirements in the Building Code.

13.7.6.8 Fossil Fuel Burning Equipment. Any device, apparatus, or appliance which is designed or used to consume fuel of any kind in which such equipment emits carbon monoxide as a by-product of combustion.

13.7.6.9 Habitable. An area or space such as a cellar, basement, or attic that is designed, used, or equipped with furnishing for living purposes.

13.7.6.10 Intermittent Ignition Device. A device which ignites an automatic gas appliance to begin normal operation thereof and which is activated only at the time such automatic gas appliance is to be so ignited.

13.7.6.11 Institutional Structures. Any dwelling, building, or structure classified as use group
I-1 through I-3, as defined in the Building Code and those unclassified occupancies that have the same characteristics as I-1 through I-3. Where there is a dispute regarding use group classification of a structure, a determination shall be made by the municipal or state building inspector having jurisdiction.

13.7.6.4.12 Residential Structures. Any dwelling, building, or structure classified as use group R-1 with less than six dwelling units or R-2 through R-5, as defined in the Building Code and those unclassified occupancies that have the same characteristics as an R-1 with less than six dwelling units or R-2 through R-5.

Where there is a dispute regarding use group classification of a structure, a determination shall be made by the municipal or state building inspector having jurisdiction.

13.7.6.4.13 Roof Mounted Fossil Fuel Burning Equipment. Any fossil fuel burning equipment mounted on top of a structure that is used to condition any medium through heating or cooling.

13.7.6.4.14 Transient Residential Structures. Any dwelling, building, or structure classified as use group R-1 with six or more dwelling units, as defined in the Building Code and those unclassified occupancies that have the same characteristics as R-1 with six or more dwelling units. Where there is a dispute regarding use group classification of a structure, a determination shall be made by the municipal or state building inspector having jurisdiction.

13.7.6.5 Carbon Monoxide Requirements. A carbon monoxide device shall be installed as provided in Section 13.7.6 and Table 13.7D and placed in the following locations:

(1) On every habitable level of a dwelling unit with or without a sleeping area.
(2) In habitable portions of basements, cellars, and attics.
(3) Within the immediate vicinity of a sleeping area but within 10 feet measured in any direction from the door to the sleeping area (bedroom).
(4) In each level of each dwelling unit in transient residential and institutional structures, with fossil fuel burning equipment or enclosed parking.
(5) One carbon monoxide alarm shall be installed in each room used by children for sleeping, learning, or participating in early education and care activities in daycare facilities.
(6) Carbon monoxide protection in Family Child Care Homes, Large Family Child Care and Family Child Care Plus facilities shall comply with Section 13.7.6.5 (1), (2), and (3).

13.7.6.6 Voice or Annunciators.
13.7.6.1 Smoke and carbon monoxide technologies shall be permitted to be installed as one unit as a combination device. Combination devices shall include both simulated voice and tone alarm features which clearly distinguishes between carbon monoxide and smoke notification, unless such system employs the following:

(1) Each combination device initiates a distinctive audible and visual alarm signal for smoke and carbon monoxide, in accordance with NFPA 72 and NFPA 720 and;

(a) Within each dwelling unit, a control unit or annunciator is installed displaying a distinctive alphanumeric message (digital or embossed) for smoke and carbon monoxide and;

(b) Where such control unit or annunciator is installed it shall be located in an accessible area within each dwelling unit and be visible at all times.

(c) For transient residential and institutional structures, such control unit or annunciator shall be located at the constantly attended location and shall be monitored.

### Table 13.7D

<table>
<thead>
<tr>
<th>Device</th>
<th>(1) Carbon Monoxide Devices.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Placement</td>
<td>(2) Carbon monoxide devices shall be installed in the following locations:</td>
</tr>
<tr>
<td></td>
<td>(a) on every level of a dwelling unit with or without a sleeping area;</td>
</tr>
<tr>
<td></td>
<td>(b) in habitable portions of basements, cellars and attics;</td>
</tr>
<tr>
<td></td>
<td>(c) installed within the immediate vicinity of a sleeping area but within ten feet measured in any direction from the door to the sleeping area [bedroom].</td>
</tr>
<tr>
<td></td>
<td>(d) on every level in every dwelling unit of transient or institutional structures with fossil-fuel burning equipment or enclosed parking garage;</td>
</tr>
<tr>
<td></td>
<td>(e) in each room used for sleeping or learning in daycare facilities;</td>
</tr>
<tr>
<td></td>
<td>(f) in locations (d) through (e) for Family Child Care Homes, Large Family Child Care, and Family Child Care Plus facilities.</td>
</tr>
</tbody>
</table>
### Power Supply

(3) Carbon monoxide devices shall be powered as follows:

(a) Battery powered, wireless appliances or an A/C (alternating current) plug-in with battery backup in accordance with NFPA 720 shall be installed in day care facilities and residential structures.

(b) A/C primary power source with battery backup in compliance or wireless systems with secondary power in compliance with NFPA 720 shall be installed in transient residential or in institutional structures.

(c) Carbon Monoxide alarms that do not include a secondary power source and have a battery as its primary power source shall meet the power provisions and conditions as provided in Section 13.7.5.

### Type of Device

(4) Single or multiple station smoke alarms/detectors or combination smoke and carbon monoxide technologies in one unit shall be permitted per Sections 13.7.5.1.3 and 13.7.5.1.4.

### Technical Options

(5) In lieu of providing carbon monoxide protection within each level of each dwelling unit, it shall be permitted to use one or more of the carbon monoxide protection technical options as provided in Section 13.7.7. However, notwithstanding the use of any alternative compliance option, carbon monoxide protection shall also be installed in any dwelling unit that contains fossil fuel burning equipment.

### Wiring

(6) Non-interconnected carbon monoxide alarms and detectors shall be permitted to be within the dwelling unit.

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**NOTE 1.** A dwelling as it is used here shall mean a single unit providing facilities for living and sleeping and used for residential purposes.

### 13.7.7 Technical Options

In lieu of providing carbon monoxide alarm protection within each level of each dwelling unit, it shall be permitted to use one or more of the carbon monoxide protection technical options as described in Section 13.7.7. However, notwithstanding the use of any alternative compliance option, carbon monoxide alarm protection shall also be installed in any dwelling unit that contains fossil fuel burning equipment.

1. **Type A.** Carbon monoxide protection shall provide visual and audible notification in the rooms or areas containing the fossil fuel burning equipment. Such protection shall be monitored in accordance with NFPA 720. Such method of monitoring is to be determined at the discretion of the building owner. In accordance with NFPA 720, the retransmission of the signal shall be at the discretion of the Head of the Fire Department.

2. **Type B.** Carbon monoxide protection for areas or rooms of centralized fossil fuel burning equipment consisting of kitchen appliances equipped with an intermittent ignition device shall comply with the Fuel/Gas Plumbing Code and NFPA 54. A written certification shall be submitted to the Head of the Fire Department from a registered professional engineer licensed by the Commonwealth, certifying that the kitchen appliances meet Fuel/Gas Plumbing Code and said NFPA 54.

3. **Type C.** Carbon monoxide protection for areas or rooms with centralized fossil fuel burning equipment which employ an automatic integrated shutdown device which shall be directly connected to the fossil fuel burning equipment and an A/C primary power source with battery backup in compliance with NFPA 720 or low voltage or wireless systems in compliance with
NFPA 720 that will cause a shut down to the fossil fuel burning equipment upon activation of a carbon monoxide device. The device must also provide an audible or visual alarm in the immediate area of the device and fossil fuel burning equipment. The fossil fuel burning equipment must be manually restarted after activation. A sign shall be mounted in the vicinity of the device with a minimum of 1 inch high letters in contrasting color with the following statement: “If the carbon monoxide device has activated, do not restart the equipment until serviced by a qualified technician”.

Exception: Such shut down requirement shall not be applicable to systems that are part of an emergency or standby system required by any municipal, state or federal law or regulation, provided the carbon monoxide detection system shall be monitored in accordance with NFPA 720.

(4) Type D. Carbon monoxide protection for adjacent spaces of structures, areas or rooms considered enclosed parking, shall employ listed carbon monoxide alarm protection meeting ANSI/UL 2075 or a low voltage or wireless system. Such installation shall provide a visual or audible alarm in the rooms or areas containing the fossil fuel burning equipment. Such protection shall be monitored in accordance with NFPA 720. Such method of monitoring is to be determined at the discretion of the building owner. In accordance with NFPA 720, the retransmission of the signal shall be at the discretion of the Head of the Fire Department.

(5) Type E. Carbon monoxide protection for enclosed parking shall employ, in the enclosed parking either:

(a) An automatic mechanical ventilation system that automatically operates upon detection of carbon monoxide in accordance with the Building Code, without exception or reduction and provides for a supervisory alarm at 50 parts per million (ppm) in accordance with NFPA 720. Such method of monitoring is to be determined at the discretion of the building owner in accordance with NFPA 720 and the retransmission of the signal shall be at the discretion of the Head of the Fire Department; or

(b) The enclosed parking has continuous mechanical ventilation at a minimum rate in accordance with the Building Code without exception or reduction. Such system shall employ a sensor to ensure the minimum airflow as designed is operating through the system. The sensor shall monitor direct airflow and shall be connected to the fire alarm panel as a supervisory alarm in accordance with NFPA 720. A registered professional engineer licensed by the Commonwealth shall provide written certification to the Head of the Fire Department that the subject enclosed parking meets the requirements of Type (E).

(6) Type F. Carbon monoxide protection for roof mounted fossil fuel burning equipment that circulate air from said unit to common areas only, shall be equipped with the following: A duct carbon monoxide gas detection device shall be installed on the discharge side of the roof mounted air handling unit or the common areas on the floor closest to the initial supply discharge from the roof mounted air handling unit. All such devices shall be installed in accordance with the manufacturer’s instructions. The carbon monoxide gas detection device shall automatically alarm upon detection of carbon monoxide at 50 parts per million (ppm) and provide for a supervisory alarm in accordance with NFPA 720. Such method of monitoring is to be determined at the discretion of the building owner in accordance with...
NFPA 720, and the retransmission of the signal shall be at the discretion of the Head of the Fire Department. Upon activation of the carbon monoxide detection device and supervisory alarm, the roof mounted fossil fuel burning equipment shall shutdown until manually reset.  

Exception: Such shut down requirement shall not be applicable to systems that are part of an emergency or standby system required by any municipal, state or federal law or regulation.

(7) Type G. Carbon monoxide protection for roof mounted fossil fuel burning equipment that do not circulate air to any common area or dwelling unit. (Reserved)

(8) Type H. Carbon monoxide protection for certain institutional structures that contain fossil fuel burning equipment that circulates air to patient rooms, inmate rooms or common areas. Carbon monoxide protection for certain institutional structures classified as either use group I-2 or I-3, that contains fossil fuel burning equipment that circulates air to dwelling units occupied by patients or inmates may be equipped with type H protection if the following conditions are met:

(a) Such structure contains dwelling units occupied by a person or persons who are not capable of self preservation due to age, mental disability, medical condition, incarceration, restraint, or security; and

(b) The occupants are under constant supervision on a 24 hour basis.

13.7.7.1 Type H protection shall include a duct carbon monoxide gas detection device which shall be installed downstream of air filters, ahead of any branch connections in air supply systems of the fossil fuel air handling unit. All such devices shall be installed in accordance with the manufacturer’s instructions. The carbon monoxide gas detection device shall automatically alarm upon detection of carbon monoxide at 50 parts per million (ppm) and provide for a supervisory alarm in accordance with NFPA 720. Such method of monitoring is to be determined at the discretion of the building owner in accordance with NFPA 720 and the retransmission of the signal shall be at the discretion of the Head of the Fire Department. Upon activation of the carbon monoxide detection device and supervisory alarm, the fossil fuel burning equipment shall shutdown until manually reset.

13.7.8 Fire alarm systems required by the Building Code shall be monitored.

Exception: Single and multiple station smoke alarms required by the Building Code in other than Groups R-1 and R-2 with more than 16 units. Smoke detectors in Group I-3 occupancies automatic sprinkler systems and single- and multi-station smoke in three through five family dwellings. Smoke detectors in patient sleeping rooms in occupancies in Group I-2.

13.7.8.1 In all cases, central stations and those operating approved remote/proprietary station fire alarm system supervising stations shall re-transmit alarm signals within 90 seconds of receipt, to the fire department having jurisdiction.

13.7.8.2 Identical control diagrams showing all devices in the system and identifying their location and function shall be maintained current and kept on file with the AHJ and shall be kept on site, adjacent to the fire alarm panel in a format and manner approved by the AHJ.
A copy of the final report required by the Building Code shall be filed with the fire code official and the building code official and an identical copy shall be maintained in an approved location at the building.

All signs required to identify fire protection equipment, equipment rooms and equipment locations shall be constructed of durable materials, be permanently installed, and be readily visible. Letters and numbers shall contrast with the sign background, shall be at least two inches in height, and shall have an appropriate width-to-height ratio to permit the sign to be read easily from a distance of ten feet. The sign and location shall be approved by the AHJ.

A-2 Nightclub Use as of January 1, 2007: New Construction, Change of Use, or Substantial Modification. The activation of any fire protection system element (signaling system, detection, sprinklering, etc.) shall automatically:

1. Cause immediate illumination of all areas and components of the required means of egress, and additionally;

2. Cause immediate full activation of all other house lighting; and

3. Cause immediate stopping of any and all sounds and visual distractions (public address systems, entertainment and dance lighting, music, etc.) that conflict/compete with the fire protective signaling system. [See the Building Code] [See Chapter 1, of this Code, Section 1.1.4 for maintaining these provisions]

Replace as follows:

Other Fire Protection Systems. Where other fire protection systems are required to be installed by the provisions of this Code, or are installed with the approval of the AHJ as an alternative or equivalency, the design and installation of the system shall comply with the appropriate standards listed in Table 13.8. The system shall be tested and maintained in accordance with Section 10.24.

Add

Inspection, Testing, and Maintenance

Application.
The inspection, testing, and maintenance of single- and multiple-station alarms, fire alarm systems and household fire warning systems shall comply with the requirements of this section.

13.10.1.1 Procedures that are required by other parties and that exceed the requirements of this section or NFPA 72 and NFPA 720 shall be permitted.

13.10.1.2 The requirements of Section 13.10 shall apply to both new and existing systems.

Purpose.

13.10.2.1 The purpose for initial and reacceptance inspections is to ensure compliance and to ensure installation is in accordance with this Code, and other required installation standards.

13.10.2.2 The purpose for periodic inspections is to assure that obvious damages or changes that might affect the alarm system operability are visually identified.

Deficiencies.
13.10.3.1 Responsibilities.
13.10.3.1.1 Tenants.
Tenants shall ensure that each alarm installed in the tenant's rental unit remains functional and is not disabled.
13.10.3.1.2 Tenants or occupants shall not cause or disable any such alarm system or part thereof.
13.10.3.1.3 If at any point the tenant believes that the alarm is not functional or malfunctioning, the tenant shall provide notice to the owner, landlord, superintendent or other owner's designated representative.

13.10.3.2 Owner, Landlord, Superintendent or Other Owner’s Designee
13.10.3.2.1 Every owner, superintendent, landlord or designee shall, at a minimum, maintain, test, repair, or replace, if necessary, every alarm upon renewal of any lease term for any dwelling unit or on an annual basis, whichever is more frequent.
13.10.3.2.1.1 Such testing shall be documented by the person performing such inspection on a form designated by State Fire Marshal.
13.10.3.2.2 When repairs or alterations or additions are made to an existing alarm and system the owner, landlord, superintendent or other owner’s designated representative shall be responsible for inspection, documentation of the actual repair or alternation and the testing of the alarm and system.
13.10.3.2.3 A written agreement shall be required documenting delegation of responsibilities provided in this section.
13.10.3.2.4 Where the building or system owner, landlord, superintendent or other owner’s designated has delegated any responsibilities or an inspection, testing, repair or alternation has been completed, a copy of the written delegation and the report required by 13.10.3.2.3 and 13.10.3.2.2 shall be provided to the AHJ upon request.
13.10.3.2.5 Occupant notification shall be required whenever an alarm system configured for releasing service is being serviced or tested.
13.10.3.2.6 The owner, landlord, superintendent or other owner’s designated representative shall not cause or disable any such alarm system or part thereof.

13.10.4 Inspection.
13.10.4.1 For the purpose of compliance with M.G.L. c.148, §26F ½ or to confirm compliance with M.G.L. c.148, §26F, a visual inspection of smoke or carbon monoxide alarms and detectors
shall be performed in accordance with Table 13.10.4, or more often if required by this Code or the AHJ.

13.10.4.2 The inspection maintenance for fire alarm and fire detection systems shall be in accordance with NFPA 72.

### Table 13.10.4 Visual Inspection

<table>
<thead>
<tr>
<th>Component</th>
<th>Initial Acceptance</th>
<th>Periodic Frequency</th>
<th>Method</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. All equipment</td>
<td>X</td>
<td>Sale and Transfer</td>
<td>Ensure there are no changes that affect equipment performance. Inspect for building modifications, occupancy changes, changes in environmental conditions, device location, physical obstructions, device orientation, physical damage, and degree of cleanliness.</td>
<td>10.24 13.7.1</td>
</tr>
<tr>
<td>2. Batteries and compartment</td>
<td>X</td>
<td>Sale and Transfer</td>
<td>Inspect for corrosion or leakage. Verify tightness of connections.</td>
<td>10.24 13.7.1</td>
</tr>
<tr>
<td>3. Device</td>
<td>X</td>
<td>Sale and Transfer</td>
<td>Inspection for expiration date of smoke alarm</td>
<td>10.24 13.7.1</td>
</tr>
<tr>
<td>4. Common Area</td>
<td>X</td>
<td>Annually Sale and Transfer</td>
<td>Inspection for compliance</td>
<td>10.24 13.7.1</td>
</tr>
</tbody>
</table>

13.10.5 Testing.

13.10.5.1 Initial Acceptance Testing.
13.10.5.1.1 All new alarms and systems required by this Code shall be inspected and tested in accordance with the requirements of this section.

13.10.5.2 Periodic Testing.
13.10.5.2.1 The owner, landlord, superintendent or other owner’s designee shall, for any existing, new, or modified alarm and system test every alarm and system in accordance with its listing when requested by the AHJ.

13.10.6 Testing and Frequency.

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
13.10.6.1 Every owner, superintendent, or landlord shall, at a minimum, maintain, test, repair, or replace, if necessary, every alarm upon renewal of any lease term for any dwelling unit or on an annual basis, whichever is more frequent. See Section 13.10.3.1 for responsibilities.

13.10.6.2 Unless otherwise permitted by other sections of this Code, testing shall be performed in accordance with the schedules in Table 13.10.4 or more often if required by the AHJ.

13.10.6.3 Alarms shall be replaced when they fail to respond to operability tests.

13.10.6.4 The testing, for fire alarm and fire detection systems shall be in accordance with NFPA 72.

13.10.7 Replacement of Single and Multiple-Station Alarms.

13.10.7.1 Alarms shall not remain in service longer than 10 years from the date of manufacture, unless otherwise provided by the manufacturer’s published instructions.

13.10.7.2 Combination smoke/carbon monoxide alarms shall be replaced when the end-of-life signal activates or 10 years from the date of manufacture, whichever comes first, unless otherwise provided by the manufacturer's published instructions.

13.10.7.3 Other than provide in 13.7.5.1.1 where batteries are used as a source of energy for smoke alarms or combination smoke/carbon monoxide alarms or single and multiple-station smoke alarms, the batteries shall be replaced in accordance with the alarm equipment manufacturer’s published instructions.

13.10.7.4 The owner, landlord, superintendent or other owner’s designated representative shall be responsible to repair, replace or for the modification of an alarm and system.

13.10.8 Maintenance.

13.10.8.1 Maintenance of an alarm and system shall be conducted according to the manufacturer’s published instructions and deficiencies shall be corrected as applicable in 10.24.

13.10.8.2 The maintenance for fire alarm and fire detection systems shall be in accordance with NFPA 72.

13.10.9 Records.

13.10.9.1 Permanent Records.

13.10.9.1.1 The owner, landlord, superintendent or other owner’s designated representative shall be responsible for maintaining records for the life of the alarm and system, for examination.

13.10.10 Inspection, Testing, and Maintenance Records.

13.10.10.1 Records shall be retained until the next test and for 1 year thereafter.

13.10.10.2 Records shall be on a medium that will survive the retention period. Paper or electronic media shall be permitted.
Chapter 14 Means of Egress.

14.1. Replace with the following:

14.2 through 14.2(2) Replace with the following:
14.2 Exit Access Corridors. Corridors used as exit access shall be separated from other parts of the building in accordance with the Building Code.

14.3.1 through 14.3.1(12). Replace with the following:
14.3.1 Where the Building Code requires an exit to be separated from other parts of the building, the separating construction shall meet the requirements of the Building Code.

14.4.3. Replace with the following:
14.4.3 Impediments to Egress. Any device or alarm installed to restrict the improper use of a means of egress shall be designed and installed so that it cannot, even in case of failure, impede or prevent emergency use of such means of egress, unless otherwise provided in the Building Code.

14.4.4. Add
14.4.4 Exterior Egress. Any fire escape or exterior stairway found to be in a state of deterioration or determined to be unsafe by the Head of the Fire Department shall be repaired immediately. Depending on the structural condition, a load test of any fire escape shall be conducted before it is returned to service.

14.5.1.1* through 14.5.1.1* (7). Replace with the following:
14.5.1.1 Swinging-Type Door Assembly Requirement. Any door assembly in a means of egress shall be of the side-hinged or pivoted-swinging type, and shall be installed to be capable of swinging from any position to the full required width of the opening in which it is installed.

14.5.1.2 through 14.5.1.2(3). Replace with the following:
14.5.1.2 Door Leaf Swing Direction. Door leaves required to be of the side-hinged or pivoted-swinging type shall swing in the direction of egress travel as required by the Building Code.

14.5.1.3.1*through 14.5.3.1* (2). Replace with the following:
14.5.1.3.1 During its swing, any door leaf in a means of egress shall leave not less than one-half of the required width of an aisle, a corridor, a passageway, or a landing unobstructed and shall project not more than 7 in. (180 mm) into the required width of an aisle, a corridor, a passageway, or a landing, when fully open.
14.5.1.3.2. Delete

14.5.1.4. Replace with the following:
14.5.1.4 Screen Door Assemblies and Storm Door Assemblies. Screen door assemblies and storm door assemblies used in a means of egress shall be subject to the requirements for direction of swing in accordance with the Building Code.

14.5.1.5.1. through 14.5.1.5.1(4). Replace with the following:
14.5.1.5.1 The forces required to fully open any door leaf manually in a means of egress shall be in accordance with the Building Code.

14.5.1.5.2. Delete

14.5.2.2*. Delete

14.5.2.4. Delete

14.5.2.5.1 (1). Replace with the following:
(1) This alternative is permitted by the Building Code for the specific occupancy.

14.5.2.5.2. Delete

14.5.2.7. Replace with the following:
14.5.2.7 Where permitted by the Building Code key operation shall be permitted, provided that the key cannot be removed when the door leaf is locked from the side from which egress is to be made.

14.5.2.8* through 14.5.2.8*(3). Replace with the following:
14.5.2.8 Every door assembly in a stair enclosure shall meet the requirements of the Building Code for re-entry.

14.5.2.8.1 through 14.5.2.8.1(5). Delete

14.5.2.8.2 through 14.5.2.8.2(6). Delete

14.5.2.8.3. Replace with the following:
14.5.2.8.3 Signage on the stair door leaves as provided in the Building Code shall be required as follows:

14.5.2.10.1 through 14.5.2.10.6. Delete

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
14.5.2.11 (2). Delete.

14.5.2.12*. Replace with the following:
14.5.2.12 Devices shall not be installed in connection with any door assembly on which panic hardware or fire exit hardware is required where such devices prevent, or are intended to prevent, the free use of the leaf for purposes of egress.

14.5.3.1.1. Replace with the following:
14.5.3.1.1 Approved, listed, delayed-egress locking systems shall be permitted to be installed on door assemblies in accordance with the Building Code, protected throughout by an approved, supervised automatic fire detection system in accordance with Section 13.7 or an approved, supervised automatic sprinkler system in accordance with Section 13.3, provided the following criteria are met.

14.5.3.1.1(1) through (1)(c). Delete

14.5.3.1.1(3) *through (3)(d). Replace with the following:
(3) An irreversible process shall release the lock within 15 seconds, or 30 seconds where approved by the AHJ, upon application of a force to the release device as required by the Building Code.

14.5.3.1.1 (5). Replace with the following:
(5) The egress side of doors equipped with delayed-egress locks shall be provided with emergency lighting in accordance with the Building Code.

14.5.3.1.2. Delete

14.5.3.2*. Replace with the following:
14.5.3.2 Access-Controlled Egress Door Assemblies. Where permitted by the Building Code, door assemblies in the means of egress shall be permitted to be equipped with an approved entrance and egress access control system, provided that all of the following criteria are met:

14.5.3.3*through 14.5.3.3*(14). Delete

14.5.3.4.2*. Replace with the following:
14.5.3.4.2 Only approved panic hardware shall be used on door assemblies that are not fire-rated door assemblies. Only approved fire exit hardware shall be used on fire-rated door assemblies. New panic hardware and new fire exit hardware shall comply with ANSI/UL 305.
14.5.3.4.3. Delete

14.5.4.1. Replace with the following:
14.5.4.1 A door leaf normally required to be kept closed shall not be secured in the open position at any time and shall be self-closing or automatic-closing in accordance with 14.5.4.2, unless otherwise permitted by the Building Code.

14.5.4.2. Replace with the following:
14.5.4.2 In any building doors shall be permitted to be automatic-closing, provided that all of the following criteria are met:

14.5.4.3. Delete

14.6.1.1. Replace with the following:
14.6.1.1 All inside stairs serving as an exit or exit component shall be enclosed in accordance with the Building Code.

14.6.1.2. Delete

14.6.1.3. Delete

14.6.2*.through 14.6.2.3. Delete

14.7.1*. Delete

14.7.2. through 14.7.2(2). Delete

14.7.4.1 through 14.7.4.1(2). Replace with the following:
14.7.4.1 The width of an exit passageway shall be sized to accommodate the aggregate required capacity of all exits that discharge through it as required by the Building Code.

14.7.4.2 through 14.7.2(2). Delete
14.8.1.2*. Delete

14.8.1.3. Replace with the following:
14.8.1.3 Occupant Load.

14.8.1.3.1. Delete
14.8.1.3.2. Replace with the following:
14.8.1.3.2 The AHJ shall be permitted to require an approved aisle, seating, or fixed equipment diagram to substantiate any occupant load and shall be permitted to require that such a diagram be posted in an approved location.

14.8.1.4 through 14.8.1.6. Delete

14.8.2.1. Replace with the following:
14.8.2.1 The width of means of egress shall be in accordance with the Building Code.

14.8.2.2. Delete

14.8.2.3. Delete

14.8.3.1 through 14.8.3.3. Delete

14.8.3.4.1 through 14.8.3.4.1(2). Replace with the following:
14.8.3.4.1 The width of any means of egress shall be in accordance with the Building Code.

14.8.3.4.1* through 14.8.3.4.1* (2). Delete

14.8.3.4.3 through 14.8.3.4.1.3(3). Delete

14.8.3.4.3. Replace with the following:
14.8.3.4.3 Where more than one exit access leads to an exit, each shall have a width adequate for the number of persons the exit accommodates.

14.9.1.1 through 14.9.1.1(2). Delete

14.9.1.2. Replace with the following:
14.9.1.2 The number of means of egress from any story or portion thereof, shall be as follows;

14.9.1.2(3). Add
(3) or as otherwise allowed by the Building Code.

14.9.1.3. Replace with the following:
14.9.1.3 Accessible means of egress shall be in accordance 521 CMR and the Building Code.

14.9.1.4 through 14.9.1.6.3. Delete
14.10.1.1.1*. Replace with the following:
14.10.1.1.1 Where exits are not immediately accessible from an open floor area, continuous passageways, aisles, or corridors leading directly to every exit such areas shall be maintained.
14.10.1.1.2. Replace with the following:
14.10.1.1.2 Exit access corridors shall provide access to not less than two approved exits, unless otherwise provided in the Building Code.

14.10.1.1.3. Delete

14.10.1.1.4. Delete

14.10.1.2. Replace with the following:
14.10.1.2 Corridors shall provide exit access without passing through any intervening rooms other than corridors, lobbies, and other spaces permitted to be open to the corridor, unless otherwise provided in the Building Code.
14.10.1.2.1(2). Replace with the following:
(2) Doors to such rooms shall comply with the Building Code.

14.10.1.2.1(3). Delete

14.10.1.3. Replace with the following:
14.10.1.3 Remoteness shall be provided in accordance with the Building Code.

14.10.1.3.1 through 14.10.1.4.2* (3). Delete

14.10.1.5*. Replace with the following:
14.10.1.5 Exit access shall be arranged so that there are no dead ends in corridors, unless permitted by, and limited to the lengths specified in the Building Code.

14.10.1.6. Delete

14.10.2. Replace with the following:
14.10.2 Impediments to Egress.

14.10.2.1*. Replace with the following:
14.10.2.1 Access to an exit shall not be through kitchens, storerooms other than as provided in the Building Code, restrooms, workrooms, closets, bedrooms, or similar spaces, or other rooms or spaces subject to locking, unless passage through such rooms or spaces is permitted by the Building Code.

14.10.2.2.1. Replace with the following:
14.10.2.2.1 Hangings or draperies shall not be placed over exit doors or located so that they conceal or obscure any exit.
14.10.2.2 through 14.10.4.9. Delete
14.11.1*. Replace with the following:
14.11.1 Exit Termination. Exits shall terminate directly, at a public way.

14.11.1.1 through 14.11.1.4. Delete

14.11.2 (1) through 14.11.2 (2). Delete

14.11.2 (4) through 14.11.2(4)(b)iii. Delete

14.11.2 (5). Replace with the following:
(5) The entire area on the level of discharge shall be separated from areas below by construction having a fire resistance rating not less than that required for the exit enclosure.

14.11.2 (6). Delete

14.11.3.1 through 14.11.3.3*. Delete

14.11.4. Replace with the following:
14.11.4 Components of Exit Discharge. Doors, stairs, ramps, corridors, exit passageways, bridges, balconies, escalators, moving walks, and other components of an exit discharge shall comply with the Building Code.

14.11.6 through 14.11.6(2). Delete

14.12.1.1*. Replace with the following:
14.12.1.1 Illumination of means of egress shall be provided in accordance with the Building Code. For the purposes of this requirement, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of this requirement, exit discharge shall include only designated stairs, aisles, corridors, ramps, escalators, walkways, and exit passageways leading to a public way.

14.12.1.2. Replace with the following:
14.12.1.2 Illumination of means of egress shall be continuous during the time that the conditions of occupancy require that the means of egress be available for use as required by the Building Code.

14.12.1.2.1. Replace with the following:
14.12.1.2.1 Artificial lighting shall be employed at such locations and for such periods of time as are necessary to maintain the illumination to the minimum criteria values as required by the Building Code.
14.12.1.2.2*. through 14.12.1.2.2* (7). Delete

14.12.1.2.3*. Replace with the following:
14.12.1.2.3 Energy-saving sensors, switches, timers, or controllers shall be approved and shall not compromise the continuity of illumination of the means of egress required by the Building Code.

14.12.1.3 through 14.12.1.3(4). Delete

14.12.1.4*. Delete

14.12.1.5. Delete

14.12.2.1. Replace with the following:
14.12.2.1 Illumination of means of egress shall be from a source considered reliable by the Building Code.

14.12.2.2. Replace with the following:
14.12.2.2 Battery-operated electric lights and other types of portable lamps or lanterns shall not be used for primary illumination of means of egress. Battery-operated electric lights shall be permitted to be used as an emergency source to the extent permitted under the Building Code.

14.13.1.1* through 14.13.1.1* (6). Replace with the following:
14.13.1.1 Emergency lighting for means of egress shall be in accordance with the Building Code.

14.13.1.3. Replace with the following:
14.13.1.3 Where maintenance of emergency illumination depends on changing from one energy source to another, a delay of not more than 10 seconds shall be permitted.

14.13.2.1. Replace with the following:
14.13.2.1 Required emergency lighting systems shall be tested in accordance with the manufacturer’s instructions.

14.13.2.1.1 through 14.13.2.1.1(5). Replace with the following:
14.13.2.1.1 Written records of tests shall be kept by the owner for inspection by the AHJ.

14.13.2.1.2 through 14.13.2.1.2(7). Delete

14.13.2.1.3 through 14.13.2.1.3(5). Delete

14.14.1.1. Replace with the following:

14.14.1.3 through 14.14.1.3(3). Replace with the following:
14.14.1.3 Exit Stair Door Tactile Signage. Tactile signage shall be provided to meet the criteria in accordance with the Building Code.

14.14.1.4. Delete

14.14.1.5.2*. Replace with the following:
14.14.1.5.2 Sign placement shall be in accordance with the Building Code.

14.14.1.6*. Delete

14.14.1.7*. Delete


14.14.2.1. Replace with the following:
14.14.2.1 A sign with a directional indicator showing the direction of travel shall be placed in every location where the direction of travel to reach the nearest exit is not apparent where required by the Building Code.


14.14.5.1*. Replace with the following:
14.14.5.1 General. Every sign required by the Building Code shall be suitably illuminated by a reliable light source. Externally and internally illuminated signs shall be legible in both the normal and emergency lighting mode.

14.14.5.2* through 14.14.5.2*. Delete


14.14.8.3.1 Replace with the following:
14.14.8.3.1 Any door, passage, or stairway that is neither an exit nor a way of exit access and that is located or arranged so that it is likely to be mistaken for an exit shall be identified as required by the Building Code.

14.15. Replace with the following:
14.15 Emergency Escape and Rescue.

14.15.1. Replace with the following:
14.15.1 Emergency escape and rescue openings shall comply with the Building Code.

14.15.2. Replace with the following:
14.15.2 Where approved, the emergency escape and rescue openings, security bars, grates, grilles, or similar devices shall be equipped with approved release mechanisms that are releasable from the inside without the use of a tool, a key, special knowledge, or force greater than that which it takes for normal operation of the door or window.

Chapter 15 Fire Department Service Delivery Concurrency Evaluation
Chapter 15 Delete in its entirety.

Chapter 16 Safeguarding Construction, Alteration, and Demolition Operations

16.1.1. Add
16.1.1.1 Permits. Permits, where required, shall comply with Section 1.12.

16.1.2. Replace with the following:
16.1.2 A fire protection plan shall be established and submitted in accordance with the Building Code.

16.2.1.4. Delete

16.2.1.15. Add
16.2.1.15 Heaters used in the vicinity of tarpaulins, canvas, or similar coverings shall be located a safe distance from coverings and other combustible materials. The coverings shall be securely fastened to prevent ignition of the covering or upsetting of the heater due to wind action on the covering or other material.

16.2.1.16. Add

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16.2.1.16 Tests for the presence of carbon monoxide shall be made by a qualified person within one hour after the start of each work shift and at least every three hours thereafter. If concentrations of carbon monoxide reach 30 parts per million (ppm) by volume, tests shall be made more frequently to determine if there is a continuing increase of carbon monoxide concentration. Records of all tests, including the date, time, results obtained, and person making tests, shall be maintained for a seven day period.

16.2.1.17. Add
16.2.1.17 Each time a salamander is placed in operation it shall be checked to ensure that it is functioning properly and its operation shall be checked periodically thereafter. When concentrations of carbon monoxide attain quantities greater than 50 parts per million (ppm) to air volume at employee breathing levels, the salamander shall be extinguished unless additional natural or mechanical ventilation is provided to reduce the carbon monoxide content to permissible limits.

16.2.1.18. Add
16.2.1.18 No employee shall be permitted to enter the heated area until notification of such entry is given to another person located outside. Periodic checks of at least one every 15 minutes shall be made to ensure the safety of employees entering the heated area.

16.2.1.19. Add
16.2.1.19 Fresh air shall be supplied in sufficient quantities to maintain the safety of employees. Where natural means of fresh air supply is inadequate (less than 16% oxygen by volume) mechanical ventilation shall be provided. Particular attention shall be given to confined spaces and pockets where heat and fumes may accumulate and employees may be present.

16.2.3.1.2*. Replace with the following:
16.2.3.1.2 Only a one day supply of heater fuel shall be stored inside a building in the vicinity of the temporary heating equipment.

16.9 through 16.9.3.4. Add
16.9 Floor Finishing or Refinishing.
16.9.1 General. Floor finishing or refinishing requirements shall apply to persons, or other entities, that engage in sanding, finishing, or refinishing wood floors, with or without compensation, in any building or structure. No person or entity shall apply or otherwise use any flammable floor finishing product during the course of any activity relating to the refinishing or finishing of the surface of a wood floor. This shall be in addition to the prohibitions of M.G.L. c.
94, § 329 relating to the sale and use of certain lacquer sealers during the course of commercial wood floor finishing operations.

16.9.2 Flammable Floor Finishing Product. Flammable floor finishing product as used herein, shall mean any clear or pigmented wood finish, formulated with nitrocellulose or synthetic resins to dry by evaporation and without chemical reaction, having a flashpoint below 100°F, and having a vapor pressure not exceeding 40 psi at 100°F, including clear lacquer sanding sealers.

16.9.3 Fire Safety Requirements. No person shall sand, strip, or re-finish wood floors where such sanding, stripping, or vapor would create an explosive atmosphere from dust or vapor that when dispersed could be ignited in the air without first complying with the following fire/explosion safety requirements. The requirements in 16.9.3 (1) and (3) are not applicable if ventilation or a dust collection equipment system is used continuously to reduce vapor or dust from accumulating in concentrations that could cause ignition or explosion:

(1) Sources of Ignition. All fires, open flames, or other sources of ignition, including smoking materials, spotlights, halogen lights or appliance pilot lights shall be eliminated from the area or unit.

(2) Electrical Permit Required. An electrical permit is required when connecting any floor-refinishing machine directly to the electrical panel in accordance with Massachusetts Electrical Code.

(3) Warning Signs. Any person or other entity sanding or stripping floors in a building containing more than one dwelling unit shall post suitable warning signs indicating the danger of dust and fire/explosion hazard and shall be conspicuously posted on all doors and entrances to the building and/or unit. Such notice is to be printed in contrasting colors and shall have lettering at least 2 inches high and shall state the name of the operator in charge, the date and time of the operation, and the area or unit where work is to be performed. Warning signs shall be posted at least 24 hours prior to engaging in such work.

(4) No Smoking signs, featuring the international pictograph prohibiting smoking, must be posted at all entrances to the house or building before floor sanding or finishing begins and until 24 hours after the end of all floor sanding and finishing activities.

16.9.3.4 Waste Materials. A metal waste-can with a self closing cover shall be provided for all waste materials, including wood, dust, and rags. All such materials shall be removed from the building and disposed of daily.

Chapter 17 Wildland Urban Interface
Chapter 17 Delete in its entirety.

Chapter 18 Fire Department Access and Water Supply

18.1.1.3. Add
18.1.1.3 Existing and new one- and two-family detached dwellings and their accessory structures such as garages, carports, and sheds shall be exempt from the provisions of 18.2.3.

18.1.1.4. Add
18.1.1.4 The fire apparatus access road plans must include an analysis and evaluation of fire apparatus maneuvers throughout the access roads created by swept path analysis and turn simulation software.

18.1.1.5. Add
18.1.1.5 The fire apparatus access plans shall bear the seal and signature of the responsible registered professional engineer.

18.1.1.6. Add
18.1.1.6 Nothing in this Section shall reduce the requirements established by cities or towns under MGL 40A and planning and zoning by-laws.

18.1.3.1. Replace with the following:
18.1.3.1 Fire Apparatus Access. Plans, where required, for fire apparatus access roads shall be submitted to the fire department for review and approval prior to construction.

18.2.2.1.1. Add
18.2.2.1.1 Approval of access roads shall be subject to the AHJ and capable of supporting the imposed loads of fire apparatus and shall be provided with an all-weather driving surface and shall be maintained as provided.

18.2.2.3. Replace with the following:
18.2.2.3 Access Maintenance. The owner or occupant of a structure or area, with required fire department access as specified in 18.2.2.1 or 18.2.2.2, shall notify the AHJ when the access is modified.

18.2.3.1.3*(1) through 18.2.3.1.3* (4). Delete

18.2.3.1.3*. Replace with the following:
18.2.3.1.3*(6) Other detached buildings having an area not exceeding 400 ft²

18.2.3.1.4. Replace with the following:

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18.2.3.1.4 When fire department access roads cannot be installed due to location on property, topography, waterways, nonnegotiable grades, or other similar conditions, the AHJ shall be permitted to accept alternatives proposed by the owner of the building to allow additional fire protection features, up to and including the installation of an approved fire sprinkler system installed in accordance with the Building Code, cistern(s), additional fire hydrant(s), or similar devices or systems.

18.2.3.2. Replace with the following:
18.2.3.2 Access to Buildings and Facilities.

18.2.3.2.1.1. Replace with the following:
18.2.3.2.1.1 Where a townhouse as defined in the Building Code, is protected with an approved automatic sprinkler system that is installed in accordance with NFPA 13D or NFPA 13R, as applicable, the distance in 18.2.3.2.1 shall be permitted to be increased to 150 ft (46 m).

18.2.3.2.2.1. Replace with the following:
18.2.3.2.2.1 When buildings are protected throughout with an approved automatic sprinkler system that is installed in accordance with NFPA 13 the distance in 18.2.3.2.2 shall be permitted to be increased to 250 feet.

18.2.3.4.1.1. Replace with the following:
18.2.3.4.1.1 Fire department access roads shall have an unobstructed width of not less than 20 feet (6.1 m). Fire department access roads constructed in the boulevard-style shall be allowed where each lane is less than 20’ but not less than 10’ when they do not provide access to a building or structure.

18.2.3.4.2.1. Add
18.2.3.4.2.1 Permeable drivable surfaces, that meet loading of 18.2.3.4.2, are allowed when approved by the AHJ. When approved, the permeable surfaces shall be identified by a method acceptable to the AHJ.

18.2.3.4.3.1. Replace with the following:
18.2.3.4.3.1 The minimum inside turning radius of a fire department access road shall be 25 feet. The AHJ shall have the ability to increase the minimum inside turning radius to accommodate the AHJ’s apparatus.

18.2.3.4.6.1. Replace with the following:
18.2.3.4.6.1 The gradient for a fire department access road shall not exceed 10%, unless approved in writing by the AHJ.

18.2.3.4.8. Add
18.2.3.4.8 Travel in the Opposing Lane. The use of the opposite travel lane is prohibited in the design of all new fire apparatus access roads.
18.2.4.2.3 through 18.4.5.4*. Delete

18.5.1 through 18.5.7.2. Delete

Chapter 19 Combustible Waste and Refuse

19.3. Add
19.3 Special Hazards, Rubbish.

19.3.1 through 19.3.1.7. Add
19.3.1 Spontaneous Combustion. Substances subject to spontaneous heating or ignition, such as oily or greasy rags, or other materials or combinations of materials, shall not be deposited in combustible containers or so kept or stored as to ignite combustible material.

19.3.1.1 Such substances shall not be mixed with combustible rubbish or stored in the same containers.
19.3.1.2 Materials subject to spontaneous ignition shall be kept in listed metal receptacles equipped with self-closing hinged covers designed to guard against the hazard of spontaneous combustion.
19.3.1.3 Contents shall be emptied every night and disposed of properly.
19.3.1.4 Hot Waste. Hot coals, cinders, hot scrap metal, and similar substances shall not be deposited in combustible containers, or kept or stored so as to ignite combustible material.
19.3.1.5 Such substances shall not be mixed with combustible rubbish or stored in the same containers.
19.3.1.6 Such substances shall be kept, handled, or stored inside buildings only in noncombustible receptacles approved by the Head of the Fire Department for that purpose and location.
19.3.1.7 Such substances shall be kept, handled, or stored outside of building locations so that they cannot ignite buildings on the premises or adjacent premises and will not endanger people.

19.4. Add
19.4 Containers which require mechanical assistance to be moved, shall be marked with the name and telephone number of the company or person from which emergency service to expedite movement of the container can be obtained.

19.5. Add
19.5 Waste storage rooms shall not contain boilers or furnaces used for the central heating of buildings, nor shall rooms with boilers or furnaces be used for waste storage of any kind. (See Section 10.19.5.1)
Chapter 20 Occupancy Fire Safety

20.1.1. Replace with the following:
20.1.1 Application. New and existing assembly occupancies shall comply with Section 20.1.

20.1.1.2. Delete

20.1.3.1. Replace with the following:
20.1.3.1 General. Interior finish shall be in accordance with the Building Code.

20.1.3.2 through 20.1.3.5.4. Delete

20.1.4.1*. Replace with the following:

20.1.4.1 General. Special amusement buildings, regardless of occupant load, shall meet the requirements for assembly occupancies, in addition to the requirements of 20.1.4 and the Building Code.

20.1.4.2* through 20.1.4.6. Delete

20.1.4.7.2. Delete

20.1.4.8. Replace with the following:
20.1.4.8 Interior Finish. Interior finish shall be in accordance with the Building Code.

20.1.5.1.2. Delete

20.1.5.1.3. Replace with the following:
20.1.5.1.3 Inspection of Door Openings. Door openings shall be inspected by the owner or their representative and be in an operable condition at all times.

20.1.5.4.5. Add
20.1.5.4.5 Upholstered furniture shall be tested in accordance with the provisions of 12.6.3.

20.1.5.5.2. Delete

20.1.5.5.3. Delete

20.1.5.5.4.1. Delete

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20.1.5.5.4.2. Delete

20.1.5.5.4.3. Delete

20.1.5.5.4.4. Replace with the following:
20.1.5.5.4.4 Exhibit booth construction materials shall be limited to the following:

20.1.5.5.4.4 (1) through 20.1.5.5.4.4(3). Delete

20.1.5.5.4.4 (5) through 20.1.5.5.4.4(8). Delete

20.1.5.5.4.7. Delete

20.1.5.5.4.7.1. Delete

20.1.5.5.4.7.2. Delete

20.1.5.5.4.7.3. Delete

20.1.5.6.1. Replace with the following:
20.1.5.6.1 A nightclub, dance hall, discotheque or bar with an occupant load of 100 or more, shall be provided with a minimum of one trained crowd manager. Where the occupant load exceeds 250, additional trained crowd managers or crowd manager supervisors shall be provided at a ratio of 1 crowd manager for every 250 occupants.

20.1.5.6.1.1. Add
20.1.5.6.1.1 A nightclub, dance hall, discotheque or bar shall be defined as:
(1) Any facility classified as an A-2 or A-3 use group under the Building Code which is principally designed or used as a nightclub, dance hall, discotheque or bar; or
(2) Any facility that features entertainment by live band or recorded music generating above normal sound levels and has a specific area designated for dancing.

20.1.5.6.1.2. Add
20.1.5.6.1.2 A crowd manager is not required for:
(1) A temporary structure erected at the same location for no more than ten days in any calendar year; or
(2) A facility that features fixed seating, such as a theatre, auditorium, concert hall or similar place of assembly; or
(3) A facility used for organized private function where:
   (a) Each guest has a seat and a table for dining purposes; and
(b) Attendance for each event is limited by pre-arrangement between the facility operator and the private event organizers; and
(c) The legal capacity of the facility provides not less than 15 square feet (net) per occupant.

20.1.5.6.2. Replace with the following:
20.1.5.6.2 The crowd manager shall receive training, as required by the State Fire Marshal. The State Fire Marshal shall develop a reasonable method to confirm, on a three-year basis, that a crowd manager has completed the training in regards to their responsibility.

20.1.5.6.2.1. Add:
20.1.5.6.2.1 Certificates. Certificates where required, shall comply with Section 1.13.

20.1.5.6.3. Add
20.1.5.6.3 A crowd manager shall be at least 21 years of age, shall be the owner or operator of the business or under the direct control and supervision of said owner or operator and shall be responsible for all of the following:
(1) Maintaining clear paths of egress, assuring that the facility does not exceed its occupant load limit, initiating a fire alarm if necessary, directing occupants to exits;
(2) Assuring general fire and life safety awareness of employees and occupants, including assuring that exit announcements are made in accordance with 20.1.5.8.3;
(3) Accurately completing the safety plan checklist required by 20.1.5.6.4.

20.1.5.6.4*. Replace with the following:
20.1.5.6.4 Fire and Building Safety Checklist.
(1) The crowd manager shall be responsible for the completion of the Fire & Building Safety Checklist, as prescribed by the State Fire Marshal, on each day of operation prior to opening the facility to patrons.
(2) This checklist shall include, but not be limited to, the routine safety check of existing fire protection systems, fire extinguishers, signage, interior finish, exits, unobstructed egress, crowd control procedures and building occupancy limits.
(3) The original completed checklists shall be kept on the premises for at least one year and shall be subject to inspection by the AHJ.

20.1.5.6.4.1. Add.
20.1.5.6.4.1 Certificates. Certificates where required, shall comply with Section 1.13.

20.1.5.7*. Delete

20.1.5.8.2. Delete

20.1.5.8.3* (4). Delete
20.1.5.8.3* (5). Add
(5) Nightclubs, dance halls, discotheques or bars.

20.1.5.10 through 20.1.5.10.1.2. Delete

20.1.5.10.2 through 20.1.5.10.2.3. Delete

20.1.5.11. Delete

20.1.5.12 through 20.1.5.12.2. Delete

20.2.1. Replace with the following:
20.2.1 Application. New and existing educational occupancies shall comply with Section 20.2.
20.2.2 through 20.2.2.5. Delete

20.2.3.1. Replace with the following:
20.2.3.1 General. Interior finish shall be in accordance with the Building Code.

20.2.3.2 through 20.2.3.4. Delete

20.2.4.2.1*. Replace with the following:
20.2.4.2.1 Emergency egress drills shall be conducted in accordance with the applicable provisions of 20.2.4.2.
20.2.4.2.1.1. Add
20.2.4.2.1.1 The responsible school official in charge of the school or the school system, shall formulate a plan for the protection and evacuation of all persons in the event of fire, and shall include alternate means of egress for all persons involved. Such plan shall be presented to and approved by the Head of the Fire Department.

20.2.4.2.1.2. Add
20.2.4.2.1.2 The responsible school official in charge of the school or the school system shall see that each class instructor or supervisor shall receive proper instructions on the fire drill procedures specified for the room or area in which that person carries out their duties before they assume such duties.

20.2.4.2.1.3. Add
20.2.4.2.1.3 Every student in all schools shall be advised of the fire drill procedure or shall take part in a fire drill within three days after entering such school.
20.2.4.2.1.4. Add
20.2.4.2.1.4 The Head of the Fire Department, or person designated by him, shall visit each school at least four times each year for the purpose of conducting fire drills and questioning the teachers and supervisors. These drills shall be conducted without advance warning to the school personnel other than the person in charge of the school at the time.

20.2.4.2.1.5. Add
20.2.4.2.1.5 Records. A record of all fire exit drills shall be kept on the premises and persons in charge of such occupancies shall file written reports at least twice a year with the Head of the Fire Department giving the following information:
(1) Time of drill;
(2) Date of drill;
(3) Weather conditions when occupants were evacuated;
(4) Number of occupants evacuated;
(5) Total time for evacuation;
(6) Other information relevant to the drill.

20.2.4.2.1.6. Add
20.2.4.2.1.6 Evacuation. Fire exit drills shall include the complete evacuation of all persons from the building.

20.2.4.2.1.7. Add
20.2.4.2.1.7 A drill of the multi-hazard evacuation plan, required by the provisions of St. 2000, c. 159, § 363, shall be permitted to be substituted for one of the fire drills required by 20.2.4.2.3.

20.2.4.2.2. Delete

20.2.4.2.3. Delete

20.2.4.3.2. Delete

20.2.4.3.3. Delete

20.2.4.4.2. Replace with the following:
20.2.4.4.2 Upholstered and molded plastic seating furniture shall be tested in accordance with the provisions of 12.6.3.

20.2.4.4.3. Replace with the following:
20.2.4.4.3 Paper materials displayed in educational use occupancies shall be permitted on walls only in accordance with the following:
(1) In classrooms, paper materials displayed shall not exceed 20% of the total wall area.
(2) Paper materials displayed shall be attached directly to the walls and shall not be permitted to cover an egress door or be placed within five feet of an egress door, unless approved by the AHJ. When determining wall areas, the door and window openings shall be included unless:

(a) Paper materials are displayed in fully enclosed viewing cabinets with glass or polycarbonate viewing panels or covered with glass or polycarbonate sheet material in accordance with the Building Code;

(b) Flame retardant paper material is used for display.

(3) Paper material displays shall be permitted to cover up to 50% of the total wall area in classrooms that are fully sprinklered in accordance with Chapter 13.

20.2.4.4.4. Add

20.2.4.4.4 Exit Access Passageways, Assembly Areas, and Corridors. Paper materials shall be permitted on walls only in accordance with the following:

(1) Paper materials displayed shall not exceed 10% of the surface area of any wall;

(2) Such paper material shall be positioned in such manner to avoid concentration of materials to reduce flame spread in the event of a fire;

(3) In no event shall any one grouping exceed a maximum horizontal measurement of 12 feet and a maximum vertical measurement of six feet. Groups of paper material shall be allowed as long as there is space between each group equal to the horizontal width of the largest adjacent group;

(4) Paper material used for display shall be attached directly to the walls and shall not be permitted to cover an egress door or be placed within five feet of an egress door unless approved by the AHJ or unless:

(a) Paper materials are displayed in fully enclosed viewing cabinets with glass or polycarbonate viewing panels or covered with glass or polycarbonate sheet material in accordance with the Building Code.

(b) Flame retardant paper material is used for display

(5) Paper material displays may cover up to 50% of the total wall area in classrooms that are fully sprinklered in accordance with Chapter 13.

20.2.4.4.5. Add

20.2.4.4.5 Exits and Enclosed Exit Stairs. Displayed paper materials shall not be permitted in exits and enclosed exit stairs.

20.2.4.4.6. Add

20.2.4.4.6 This Section shall not prohibit the posting of exit signage or evacuation plans in accordance with this Code.

20.2.4.4.7. Add

20.2.4.4.7 The provisions of 20.2.4.4.3 or 20.2.4.4.4 shall not be applicable to any election materials required by law to be posted during any local, state or federal election.

20.2.4.5. Replace with the following:

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20.2.4.5 Unvented Fuel-Fired Heaters. Unvented fuel-fired heaters, other than gas space heaters in compliance with NFPA 54, shall not be used in accordance with the following:
(1) Prohibited Installations. Unvented room heaters shall not be installed in bathrooms or bedrooms.
(2) Listing and Installation. Unvented room heaters shall be listed in accordance with ANSI Z21.11.2, Gas-Fired Room Heaters-Volume II, Unvented Room Heaters, and shall be installed in accordance with the manufacturer’s installation instructions.

20.2.4.5.1. Add
20.2.4.5.1 Permit. Permits, where required, shall comply with Section 1.12.

20.3.1. Replace with the following:
20.3.1 Application. New and existing Day-care occupancies shall comply with Section 20.2.

20.3.1.1 through 20.3.1.4 Delete

20.3.1.5.1 through 20.3.1.5.3. Delete

20.3.2. Delete

20.3.2.1. Replace with the following:
20.3.2.1 Unvented Fuel-Fired Heaters. Unvented fuel-fired heaters, other than gas space heaters in compliance with NFPA 54, shall not be used in accordance with the following:
(1) Prohibited Installations. Unvented room heaters shall not be installed in bathrooms or bedrooms.
(2) Listing and Installation. Unvented room heaters shall be listed in accordance with ANSI Z21.11.2, Gas-Fired Room Heaters-Volume II, Unvented Room Heaters, and shall be installed in accordance with the manufacturer’s installation instructions.

20.3.2.1.1. Add
20.3.2.1.1 Permit. Permits, where required, shall comply with Section 1.12.

20.3.2.4 through 20.3.2.4.6. Delete

20.3.3.1. Replace with the following:
20.3.3.1 General. Interior finish shall be in accordance with the Building Code.

20.3.3.2 through 20.3.3.4.4. Delete

20.3.4 through 20.3.4.2.3.6*. Delete

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20.4.1. Replace with the following:
20.4.1 Application. New and existing health care occupancies shall comply with Section 20.4.

20.4.2.5.2(1). Replace with the following:
(1) The furniture shall meet the criteria specified in 12.6.3.1 and 12.6.3.3.

20.4.2.5.3. Replace with the following:
20.4.2.5.3 The requirements of 20.4.2.5.2, 12.6.3.1, and 12.6.3.3 shall not apply to upholstered furniture belonging to the patient in sleeping rooms of existing nursing homes where the following criteria are met:

20.4.3.1. Replace with the following:
20.4.3.1 General. Interior finish shall be in accordance with the Building Code.

20.4.3.2 through 20.4.3.5.3. Delete

20.5.1. Replace with the following:
20.5.1 Application. New and existing residential board and care occupancies shall comply with Section 20.5.

20.5.2.5.2.1. Replace with the following:
20.5.2.5.2.1 New upholstered furniture shall be tested in accordance with the provisions of 12.6.3.1(1) and 12.6.3.3.

20.5.2.5.2.3.1. Replace with the following:
20.5.2.5.2.3.1 Newly introduced mattresses shall be tested in accordance with the provisions of 12.6.3.2 and 12.6.3.4.

20.5.3 through 20.5.3.3.2. Delete

20.6.1. Replace with the following:
20.6.1 Application. New and existing ambulatory health care centers shall comply with Section 20.6.

20.6.2.5.2 (1). Replace with the following:
(1) The furniture shall meet the criteria specified in 12.6.3.3.

20.6.2.5.3(1). Replace with the following:
20.6.2.5.3(1) The mattresses shall meet the criteria specified in 12.6.3.4.
20.6.3. through 20.6.3.4. Delete

20.7.1. Replace with the following:
**20.7.1 Application.** New and existing detention and correctional occupancies shall comply with Section 20.7.

20.7.2.1.1. Replace with the following:
**20.7.2.1.1 Detention and correctional facilities, or those portions of facilities having such occupancy, shall be provided with 24-hour staffing.**

20.7.2.1.1. Add
**20.7.2.1.1 For Use Condition III, Use Condition IV, and Use Condition V.** The arrangement shall be such that the staff involved starts the release of locks necessary for emergency evacuation or rescue and initiates other necessary emergency actions within 2 minutes of alarm.

20.7.2.1.2* through 20.7.2.1.4.2. Delete

20.7.2.2*. Delete

20.7.2.4.2. Replace with the following:
**20.7.2.4.2 Newly introduced upholstered furniture within detention and correctional occupancies shall meet the criteria specified in 12.6.3.1(2) and 12.6.3.3.**

20.7.2.4.3*. Replace with the following:
**20.7.2.4.3 Newly introduced mattresses within detention and correctional occupancies shall be tested in accordance with the provisions of 12.6.3.2 and 12.6.3.4.**

20.7.2.4.5. Delete

20.7.2.5. Delete

20.7.3.1. Replace with the following:
**20.7.3.1 General.** Interior finish shall be in accordance with the Building Code.

20.7.3.2 through 20.7.3.6.2.3. Delete

20.8.1. Replace with the following:
**20.8.1 Application.** New and existing hotels and dormitories shall comply with Section 20.8, 20.8.2.5.2.1, 12.6.3.1 and 12.6.3.3.

20.8.2.6. Replace with the following:
**20.8.2.6 Unvented Fuel-Fired Heaters.** Unvented fuel-fired heaters, other than gas space heaters in compliance with NFPA 54, shall not be used in accordance with the following:
(1) Prohibited Installations. Unvented room heaters shall not be installed in bathrooms or bedrooms.

(2) Listing and Installation. Unvented room heaters shall be listed in accordance with ANSI Z21.11.2, *Gas-Fired Room Heaters-Volume II, Unvented Room Heaters*, and shall be installed in accordance with the manufacturer’s installation instructions.

**20.8.2.6.1. Add**

**20.8.2.6.1 Permit.** Permits, where required, shall comply with *Section 1.12*.

**20.8.3.1. Replace with the following:**

**20.8.3.1 General.** Interior finish shall be in accordance with the *Building Code*.

**20.8.3.2 through 20.8.3.5. Delete**

**20.9.1. Replace with the following:**

**20.9.1 Application.** New and existing apartment buildings shall comply with *Section 20.9*.

**20.9.2.1. Replace with the following:**

**20.9.2.1 Emergency Instructions for Residential Housing for the Elderly.** Emergency instructions shall be provided annually by the housing complex administrator to each dwelling unit when containing 6 or more to indicate the location of alarms, egress paths, and actions to be taken, both in response to a fire in the dwelling unit and in response to the sounding of the alarm system.

**20.9.2.1.1. Add**

**20.9.2.1.1 Permit.** The AHJ shall visit four times a year to:

(1) To conduct a fire drill; or

(2) Ascertain the evacuation process and procedure.

**20.9.2.2. Replace with the following:**

**20.9.2.2 Unvented Fuel-Fired Heaters.** Unvented fuel-fired heaters, other than gas space heaters in compliance with NFPA 54, shall not be used in accordance with the following:

(1) **Prohibited Installations.** Unvented room heaters shall not be installed in bathrooms or bedrooms.

(2) **Listing and Installation.** Unvented room heaters shall be listed in accordance with ANSI Z21.11.2, *Gas-Fired Room Heaters-Volume II, Unvented Room Heaters*, and shall be installed in accordance with the manufacturer’s installation instructions.

**20.9.2.2.1. Add**

**20.9.2.2.1 Permit.** Permits, where required, shall comply with *Section 1.12*. 

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**20.9.3** through **20.9.3.5.** Delete

**20.9.4.** Replace with the following:

**20.9.4** Contents and furnishings in public areas shall comply with *Section 12.6.3.*

**20.10.1.** Replace with the following:

**20.10.1 Application.** New and existing lodging or rooming houses shall comply with *Section 20.10.*

**20.10.2.** Replace with the following:

**20.10.2 Unvented Fuel-Fired Heaters.** Unvented fuel-fired heaters, other than gas space heaters in compliance with NFPA 54, shall not be used in accordance with the following:

(1) **Prohibited Installations.** Unvented room heaters shall not be installed in bathrooms or bedrooms.

(2) **Listing and Installation.** Unvented room heaters shall be listed in accordance with ANSI Z21.11.2, *Gas-Fired Room Heaters-Volume II, Unvented Room Heaters,* and shall be installed in accordance with the manufacturer’s installation instructions.

**20.10.2.1.** Add

**20.10.2.1 Permit.** Permits, where required, shall comply with *Section 1.12.*

**20.10.3.1.** Replace with the following:

**20.10.3.1 General.** Interior finish shall be in accordance with the *Building Code.*

**20.10.3.2** through **20.10.3.2.** Delete

**20.10.4.** Replace with the following:

**20.10.4** Contents and furnishings in public areas shall comply with *Section 12.6.*

**20.11.1.** Replace with the following:

**20.11.1 Application.** New and existing one- and two-family dwellings shall comply with *Section 20.11.*

**20.11.2.** Replace with the following:

**20.11.2 Unvented Fuel-Fired Heaters.** Unvented fuel-fired heaters, other than gas space heaters in compliance with NFPA 54, shall not be used in accordance with the following:

(1) **Prohibited Installations.** Unvented room heaters shall not be installed in bathrooms or bedrooms.
(2) **Listing and Installation.** Unvented room heaters shall be listed in accordance with ANSI Z21.11.2, *Gas-Fired Room Heaters-Volume II, Unvented Room Heaters,* and shall be installed in accordance with the manufacturer’s installation instructions.

20.11.2.1. Add
20.11.2.1 **Permit.** Permits, where required, shall comply with *Section 1.12.*

20.11.3 through 20.11.5. Delete

20.12.1. Replace with the following:
20.12.1 **Application.** New and existing mercantile occupancies shall comply with *Section 20.12.*

20.12.2.3. Delete

20.12.3.1. Replace with the following:
20.12.3.1 **General.** Interior finish shall be in accordance with the *Building Code.*

20.12.3.2 through 20.12.3.4. Delete

20.13.1. Replace with the following:
20.13.1 **Application.** New and existing business occupancies shall comply with *Section 20.13.*

20.13.2.3 Delete

20.13.3.1. Replace with the following:
20.13.3.1 **General.** Interior finish shall be in accordance with the *Building Code.*

20.13.3.2 through 20.13.3.4. Delete

20.14 through 20.14.3.3.2. Delete

20.15.1. Replace with the following:
20.15.1 **Application.** New and existing storage occupancies shall comply with the appropriate codes or standards referenced in Chapter 2 and *Section 20.15.*

20.15.3 through 20.15.3.2. Delete

20.15.4(7). Add
(7) NFPA 1124, *Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles,* as modified by this *Code.*
20.15.6 through 20.15.6*. Delete

20.15.8.3 through 20.15.8.3.3(3). Delete

20.16 through 20.16.1.2. Delete

20.17 through 20.17.3(2)*. Delete

20.18 Add

20.18 Special Provisions for Certain Places of Worship Which have been Issued a Valid Certificate of Occupancy for Use as a Temporary Overnight Shelter Pursuant to the Building Code.

20.18.1 through 20.18.1(3) (m). Add

20.18.1 A place of worship which has been issued a valid certificate of occupancy for use as a temporary overnight shelter in accordance with the provisions of the Building Code shall not be deemed in violation of the provision of this Code as a result of such temporary use, as long as the facility meets the following conditions:

1. The temporary overnight shelter is in possession of a valid certificate of occupancy for such temporary use which has been reviewed and approved by the Head of the Fire Department in accordance with the Building Code.

2. The approved temporary overnight shelter is used, occupied, and operated in accordance with the terms and conditions specified in said certificate of occupancy and said certificate of occupancy is posted in a conspicuous location.

3. In addition to the terms and conditions specified in the certificate of occupancy, the following fire safety requirements shall be applicable:
   a. The building which houses the approved temporary overnight shelter shall have no known existing or outstanding violations of this Code or M.G.L. c. 148;
   b. A copy of the fire safety and evacuation plan, approved in accordance with the provisions of the Building Code shall be kept on the premises and posted near the main entrance;
   c. The responsible person(s) identified in the application for the Temporary Certificate of Occupancy shall maintain the condition of the shelter in accordance with the layout contained in the approved fire safety and evacuation plan.
   d. The employees, volunteers, or attendants of the temporary overnight shelter shall be trained and drilled in the duties that they are to perform in case of fire, panic, or other emergency in accordance with the provisions of 20.2.4.2.1.1.
   e. No person shall be permitted to smoke within the temporary overnight shelter.
   f. Smoking may be allowed outside in an area approved by the Head of the Fire Department.
   g. A document shall be posted, in a location approved by the Head of the Fire Department, containing an accurate number of sheltered occupants on a nightly basis.
(h) Such document shall also contain the names of all workers and volunteers who are overseeing or assisting in the temporary overnight shelter usage on a nightly basis. In the event of an evacuation, a copy of the document shall be in the possession of the person in charge at a designated meeting point.

(i) The temporary overnight shelter shall maintain a working landline phone that must be accessible to initiate a call for assistance in the event of an emergency. A cell phone is not acceptable for compliance with this requirement.

(j) The use of battery operated smoke alarms and carbon monoxide detectors, as outlined in Chapter 13. All temporary overnight shelters shall be equipped with monitored and interconnected smoke and carbon monoxide detection system as described in the Building Code.

(k) Carbon monoxide alarms shall be installed in accordance with Chapter 13. For purpose of compliance with Chapter 13, the dwelling unit of an approved temporary shelter shall be considered that portion of the building used for sleeping purposes.

(l) An approved temporary overnight shelter shall feature working and approved smoke detectors in accordance with the requirements of the Building Code, if applicable. If smoke detectors are not currently required under the Building Code, the shelter shall, at a minimum, feature approved working smoke detectors in accordance with the provisions of Chapter 13:
   (1) Approved Smoke Detectors. Such smoke detectors shall be installed in any room or area used for sleeping purposes and in any room or area directly adjacent to said sleeping area.

(m) The Head of the Fire Department shall be notified, in writing, at least 48 hours prior to the actual activation of an approved temporary overnight shelter and shall be notified, in writing, upon the termination of such activation.

Chapter 21 Airports and Heliports
Chapter 21 Delete in its entirety.

Chapter 22 Automobile Wrecking Yards

22.8. Replace with the following:
22.8 Burning Operations. Burning operations shall not be allowed.

22.9.3 through 22.9.3.2. Delete
22.9.4. Delete

22.9.5 through 22.9.5.2. Delete

Chapter 23 Cleanrooms

23.2.1. Add

23.2.1 Maximum Quantities of Hazardous Chemicals. The maximum quantities of hazardous chemicals for a single fabrication area or at a workstation are limited by the Building Code. A permit shall not be issued until such time that the Building Official has confirmed the facility is classified and constructed as the appropriate H-use group or is exempt.

Chapter 25 Grandstands and Bleachers, Folding and Telescopic Seating, Tents, and Membrane Structures

Chapter 25 Delete in its entirety.

Chapter 26 Laboratories Using Chemicals

Add 26.3.

26.3. Penetrations. Penetrations through fire-rated floor/ceiling, floor, and wall assemblies shall be protected in accordance with the Building Code.

Chapter 27 Manufactured Home and Recreational Vehicle Sites

Chapter 27 Delete in its entirety.

Chapter 28 Marinas, Boatyards, Marine Terminals, Piers, and Wharves

Chapter 28 Delete in its entirety.

Chapter 29 Parking Garages

Chapter 29 Delete in its entirety.

Chapter 30 Motor Fuel Dispensing Facilities and Repair Garages

30.1.1.4. Add

30.1.1.4 Underground Storage Tanks, Associated Piping and Other Environmental Requirements see 310 CMR: Department of Environmental Protection.
30.1.5.1*. Replace with the following:
30.1.5.1 For an unattended self-serve, motor fuel dispensing facility, additional fire protection shall be provided where required by the State Fire Marshal.

30.1.5.2. Replace with the following:
30.1.5.2 An automatic fire suppression system shall be installed in accordance with the appropriate NFPA standard, manufacturers’ instructions, and the listing requirements of the systems.

30.1.5.3. Add
30.1.5.3 The fire protection system shall be installed in accordance with the requirements of the State Fire Marshal.

30.2.7. Replace with the following:
30.2.7 Fixed Fire Protection. If in the opinion of the AHJ, it is deemed necessary, automatic sprinkler protection shall be installed in accordance with NFPA 13, when any vehicle containing or using gasoline or any other petroleum product for fuel or power is kept in a garage and are loaded with merchandise, which is of such a flammable nature as to be readily ignitable.

Chapter 31 Forest Products
31.1*. Replace with the following:
31.1 General. The outside storage of forest product materials within the purpose and scope of this Chapter shall be in accordance with the provisions of this Chapter.

31.3.2.1.4. Replace with the following:
31.3.2.1.4 Where the storage of materials regulated by this Chapter are permitted to accumulate in a quantity or location that may constitute an undue public safety hazard, adequate fencing of
not less than six (6) ft. (1.8388 m) in height with an approved locked gate located as necessary to allow the entry of fire department apparatus, shall be provided. The fencing shall encompass the material or property.

31.3.3.4. Replace with the following:
31.3.3.4 Where stacks are supported clear of the ground, 6 inches (150 mm) of clearance shall be provided for cleaning operations under the stacks or, as otherwise approved by the AHJ.

31.3.3.4.1.1 Replace with the following:
31.3.3.4.1.1 Open yard stacking shall be located with not less than 15 ft (4.6 m) clear space to buildings or, as otherwise approved by the AHJ.

31.3.3.4.1.2 Replace with the following:
31.3.3.4.1.2 Boundary posts with signs designating stacking limits shall be provided to designate the clear space to unsprinklered buildings in which hazardous manufacturing or other operations take place or, as otherwise approved by the AHJ.

31.3.6.4. 3*. Replace with the following:
31.3.6.4.3 Property line clearance of not less than 25 ft (7.62m) at the base of the pile shall be provided.

Chapter 32 Motion Picture and Television Production Studio Soundstages and Approved Production Facilities

32.1.1 Add
32.1.1 Terms. As used in Chapter 32 the enclosed terms shall have the following meaning assigned to them.

32.1.1(1) Add
(1) **On-Site Personnel.** Cast, crew, vendors, contractors, and any other personnel servicing the production.

32.4.2. Replace with the following:

**32.4.2 Permits.** Permits where required shall comply with 1.12 and shall be obtained for any of the following activities:

1. Use of pyrotechnic special effects
2. Use of open flames
3. Welding
4. Storage and use of flammable or combustible liquids or gases
5. Use of aircraft
6. Presence of motor vehicles within a building
7. Productions with live audiences

32.4.7.1. Replace with the following:

**32.4.7.1 Approved production facilities and soundstages shall be designed, constructed, or altered to sustain all structural load combinations in accordance with the Building Code.**

32.4.7.2. Replace with the following:

**32.4.7.2 Where the anticipated loads exceed those specified in the Building Code for the purpose of suspending sets, ceilings, backings, and other heavy production set pieces, the building shall be designed and constructed for the additional loads as required by the Building Code.**

32.4.8.1. Replace with the following:

**32.4.8.1 Electrical equipment shall be in accordance with the Massachusetts Electrical Code.**

32.4.11.1.2. Replace with the following:

**32.4.11.1.2 A new soundstage or new approved production facility shall be equipped with an approved, supervised automatic sprinkler system in accordance with the Building Code.**

32.5.1. Replace with the following:

**32.5.1 General.** Section 32.5 shall apply to production locations. [140:5.1]. Temporary use and occupancy shall be regulated by the Building Code.

32.5.2. Replace with the following:

**32.5.2 Permits.** Permits where required shall comply with 1.12 and shall be obtained, unless waived by the AHJ, for any of the following activities:

1. Use of the site as a production location where more than 30 on-site personnel are present
2. Use of pyrotechnic special effects
3. Use of open flames

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(4) Welding and cutting
(5) Storage and use of flammable or combustible liquids or gases
(6) Use of aircraft
(7) Presence of motor vehicles within a building
(8) Use of liquefied petroleum gases
(9) Productions with a live audience
(10) Use of fog and haze

32.5.2.1 Notification and Permits. Notification shall be made to the Head of the Fire Department, or designee, at least two business days, prior to the use of production locations where 15 to 30 on-site personnel are present, providing permits are not required by Section 32.5.2.

32.5.3.2. Replace with the following:
32.5.3.2 Chapter 65 shall be used to regulate any pyrotechnic use.

32.5.7.1. Replace with the following:
32.5.7.1 Sets, scenery, and other equipment shall not impact the structural integrity of existing buildings. Additional loads applied onto the building shall be in accordance with the Building Code.

32.5.7.2. Replace with the following:
32.5.7.2 Additional loads applied onto the building shall require approval of the Building Official.

32.5.8.1. Replace with the following:
32.5.8.1 Electrical power connections made to the site electrical service shall be in accordance with the Massachusetts Electrical Code.

32.5.8.2. Delete

32.5.8.3*. Delete

32.5.10*. Replace with the following:
32.5.10 Means of Egress. The production location shall be provided with the means of egress per the Building Code.

32.5.11. Replace with the following:
32.5.11 Fire Protection. Fire protection shall be provided in accordance with the Building Code.

32.5.11.1* through 32.5.11.4*. Delete
Chapter 33 Outside Storage of Tires
Chapter 33 Delete in its entirety.

Chapter 34 General Storage
34.4.2.2*. Replace with the following:
34.4.2.2 Storage in buildings and structures shall not be within two feet of a ceiling, or roof deck or otherwise required by NFPA 13.

Chapter 36 Telecommunication Facilities and Information Technology Equipment
Chapter 36 Delete in its entirety.

Chapter 37 Fixed Guideway Transit and Passenger Rail Systems
Chapter 37 Delete in its entirety.

Chapter 41 Welding, Cutting, and Other Hot Work

41.1.1.1 through 41.1.1.1(8). Add
41.1.1.1 Terms. As used in Chapter 41 the enclosed terms shall have the following meaning assigned to them.
(1) Hot Work. Work involving, burning, welding, or a similar operation that is capable of initiating fires or explosions. [51B:3.3.2]
(2) Hot Work Operator. A qualified person and if required, shall be certified pursuant to the provisions of this chapter and standards referenced in this chapter.
(3) Qualified Person. A person who has met the training criteria pursuant to 41.7.
(4) Management. For the purpose of hot work, all persons, including owners, contractors, educators, and so on, who are responsible for hot work operations. [51B:3.3.2]
(5) Permissible Areas.
(a) Designated Area. A specific location designed and approved for hot work operations that is maintained fire-safe, such as a maintenance shop or a detached outside location, that is of noncombustible or fire-resistant construction, essentially free of combustible and flammable contents, and suitably segregated from adjacent areas. [51B:3.3.3.1]
(b) Permit-Required Area. Any location other than a designated area that is approved for hot work and is made fire-safe by removing or protecting combustibles from ignition sources. [51B:3.3.3.2]
(6) Permit. For the purposes of hot work, a document issued, by the AHJ, to a qualified person as defined in 41.1.1.1(3) for the purpose of authorizing that individual to carry out the activity of hot work.
(7) Permit Authorizing Individual (PAI). An individual designated by management to authorize hot work. [51B:3.3.5*]

(8) Welding and Allied Processes. Processes such as arc welding, oxy–fuel gas welding, open-flame soldering, brazing, thermal spraying, oxygen cutting, and arc cutting. [51B: 3.3.6*]

41.1.5.3. Add
41.1.5.3 Hot Work Permit. Hot work permits, where required shall comply with Section 1.12 and Chapter 41.

41.2.1.8 through 41.2.1.10. Add
41.2.1.8 Management shall ensure that the contractor has evidence of financial responsibility, which can take the form of an insurance certificate or other document attesting to coverage or responsibility, a copy and an education certification of completion shall be submitted to the AHJ when requested.
41.2.1.9 Management shall assure that welders and their supervisors are trained in the safe operation of their equipment, the safe use of the process, and emergency procedures and maintain education certificates of completion on file and if requested submit to the AHJ.
41.2.1.10 Management or designated agent shall select contractors to perform welding who provide trained and qualified personnel, and who have an awareness of the risks involved. [ANSI Z49, 2012]

41.2.2. Replace with the following:
41.2.2 Permit Authorizing Individual (PAI). In conjunction with management and in consultation with the AHJ if required, the PAI shall be responsible for the safe operation of hot work activities.

41.2.3(4). Add
(4) The hot work operator shall be permitted to be the PAI, however, in those cases, the hot works operator shall not be permitted to issue a hot work permit for the work to be performed by himself, see the provisions of 41.4(1) or 41.4(2).

41.2.4.8 through 41.2.4.8.1. Add
41.2.4.8 A fire watch when required shall be maintained for at least 1/2 hour after completion of hot work operations in order to detect and extinguish smoldering fires. The duration of the fire watch shall be permitted to be extended if the PAI or the AHJ determines the fire hazards warrant the extension.
41.2.4.8.1 More than one fire watch shall be required if determined by the AHJ that combustible materials could be ignited by the hot work operation which cannot be directly observed by the initial fire watch.

41.2.5.1. Add
41.2.5.1 Contractors. Contractors, when requested, shall provide education certificates of completion, completed within the past 12 months by themselves and individuals they employ who perform hot work, See 41.7.

41.3.4.1.1. Add

41.3.4.1.1 The decision tree in Figure 41.3.4.1.1 shall be permitted to be used to determine if a hot work permit is necessary.

Figure 41.3.4.1.1 Hot Work Permit Decision Tree

1. Is there an acceptable alternative to hot work?  Yes → Complete job with cold work. No hot work permit is needed
   NO →

2. Can hot work be performed in a designated area (e.g., maintenance shop)?
   Yes → Examine designated area, then complete hot work there. No Hot Work Permit or a Permit from the AHJ required.
   NO →

3. Is the proposed work to be performed in a nondesignated area (e.g., NOT in a maintenance shop)?
   Yes → Hot work Permit and A permit from the AHJ required.
   NO →

4. Will the proposed work be performed in a required permit area?
   Yes → Hot Work Permit and A Permit from the AHJ required.
   NO →

5. Hot Work Permit Program has not been established and Hot Work to be performed
   A permit from the AHJ required

41.3.4.1.1.1. Add

41.3.4.1.1 A Hot Work Permit shall be used when hot work is to be carried out in a Permitted Required Area.

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41.3.4.2. Replace with the following:

41.3.4.2 Before a hot work permit is issued the following conditions shall be verified by the PAI, and with the AHJ if required:

41.3.4.3. Replace with the following:

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
41.3.4.3 The PAI in consultation with the AHJ, if required shall determine the length of the period for which the hot work permit is valid

41.3.5.1*. Replace with the following:

41.3.5.1 A fire watch shall be required by the PAI in consultation with the AHJ, when hot work is performed in a location where other than a minor fire might develop or where the following conditions exist:

41.3.5.1.1. Add

41.3.5.1.1 Table 41.3.5.1.1 entitled Fire Watch Tree shall be permitted to be used by the PAI and AHJ to determine if a fire watch is necessary.

**Table 41.3.5.1.1 Fire Watch Decision Tree.**

1. Did the PAI or AHJ tell you to have a fire watch?
   - No
   - Yes

2. Is hot work to be done in a designated area that has been examined and still qualifies as a designated area?
   - Yes
   - No

3. Is hot work to be done where other than a minor fire might develop?
   - Yes
   - No

4. Is hot work to be done where flammables or combustibles are more than 56 ft (17 m) away but are easily ignited by sparks?
   - Yes
   - No

5. Is hot work to be done where wall or floor openings within 56 ft (17 m) would expose combustibles in adjacent areas?
   - Yes
   - No

6. Is hot work to be done where combustibles are adjacent to partitions, ceilings, or roofs being worked on?
   - Yes
   - No

7. Is the operator required to don specialty PPE that does not comply with Section 5.1 of NFPA 51B?
   - Yes
   - No

8. Are you unsure of any of the “No” answers in questions 1–7?
   - Yes
   - No
41.4(1) through 41.4(3). Add

41.4(1) Add

(1) **Hot Work Operations Conducted By Persons Licensed By Other Jurisdictions.** Pursuant to Section 1.1.3, a hot work permit shall not be required from the fire department when the hot work activity is performed by a person, or under the direct supervision of a person, licensed and permitted pursuant to a specialized code as defined in M.G.L. c. 143, §96. Any licensed person performing hot work must have obtained training for hot works safety either:

(a) by obtaining training approved by the authority issuing them a license to perform specialized code work; or

(b) by meeting the requirements of 41.7 of Chapter 41.

(2) **Hot Work Operations Conducted By Persons On Their Own Premises.** Individuals who conduct hot work operations on their premise or equipment shall be permitted to carry-out hot work, after consultation with the AHJ before hot work operations can be conducted. Further, such person shall meet the training provisions, pursuant to 41.7 of Chapter 41.

(3) **Homeowners and Hobbyists.** Homeowners and hobbyists are exempt from the permit requirements.

41.4.1*. Replace with the following:

41.4.1 Assignment of PAI and Fire Watch. Sole proprietors and individual operators as provided in 41.4(1), (2) and (3) shall be permitted to serve as PAI, fire watch and operator.

41.5.4.4. Add

41.5.4.4 Inspection by the AHJ.

41.5.4.4.1 through 41.5.4.4.2. Add

41.5.4.4.1 The AHJ shall be permitted to require annual inspection for designated areas.

41.5.4.4.2 The AHJ shall be permitted to inspect a premise for compliance before any hot work is carried out.
41.7. Add
41.7 Qualifications.

41.7.1. through 41.7.1 (5). Add
41.7.1 As of July 1, 2018, an individual to be qualified to be a PAI, perform fire watches, perform, supervise or delegate any activities of hot work as defined in this chapter shall first provide documentation that he or she has successfully completed training approved by the State Fire Marshal in the following areas: Successfully completed as used here means an education program covering materials provided in 41.7(1) through (5) further, the material was completed by the individual within the past 12 months; and that a certificate of completion has been issued to the individual with the date of completion on the certificate and a provider’s/ instructor’s signature acknowledging such individual attended and completed the program containing all of the following subject matter:

(1) Massachusetts Comprehensive Fire Safety Code, 527 CMR: 1.00 Chapter 41, Hot Work Operations
(2) 29 CFR 1910.252 Subpart Q-Welding, cutting and brazing
(3) NFPA 51B Standard for Fire Prevention During Welding, Cutting, and Other Hot Work, 2014 edition
(5) ANSI Z49, Safety in Welding, Cutting, and Allied Processes, 2012 edition

Chapter 42 Refueling

42.1. Replace with the following:
42.1 General. Chapter 42 shall apply to refueling of automotive vehicles and marine vessels. It shall not be applied to the transportation of fuel gases over the highways in interstate commerce or vehicles complying with Federal Motor Vehicle Safety Standards.

42.1.1 through 42.1.1.2. Add
42.1.1 Terms. As used in Chapter 42, the enclosed terms shall have the following meaning assigned to them.
42.1.1.1 Point of Delivery. The outlet of the service meter assembly or the outlet of the service regulator or the crash valve or service shut off valve where no meter is provided.
42.1.1.2 Certificates. Certificates, where required, shall comply with Section 1.12.8.51 and Section 1.13, as applicable.
42.2.2.3. Add
42.2.2.3 This Chapter shall apply to the transportation of Class II and Class IIIA combustible
liquids, by Massachusetts registered motor vehicles in cargo tanks, portable tanks and transfer
tanks by transport vehicles and flammable liquids in non-bulk packagings.

42.2.2.4. Add
42.2.2.4 The intent of this Chapter is to protect the public safety and welfare from the danger of
fire due to tank or container leakage of flammable or combustible liquids and is in addition to the
requirements of the U.S. Department of Transportation, (DOT) Title 49 CFR.

42.3.3.1. Replace with the following:
42.3.3.1 **Underground Tanks**. Underground storage tanks shall comply with 310 CMR 80.00:
*Underground Storage Tank (UST) Systems* and meet all applicable requirements of NFPA 30,
Chapters 21: *Storage of Liquids in Tanks - Requirements for All Storage Tanks* and 23: *Storage
of Liquids in Tanks - Underground Tanks*.

42.3.3.8. Replace with the following:
42.3.3.8 **Corrosion Control.** Any portion of a tank or its piping that is in contact with the soil
shall have properly engineered, installed, and maintained corrosion protection in accordance with
the American Petroleum Institute, the American Society of Mechanical Engineers, or
Underwriters Laboratories Inc.. If corrosion is anticipated beyond the applicable design formulas
or standards, metal thickness or approved protective coating or liners shall be provided to
compensate for corrosion loss expected during the design life of the tank. If requested by the
AHJ, an engineering analysis shall be permitted required to assure compliance.

42.5.3.4.1 through 42.5.3.4.1(2)(a). Add
42.5.3.4.1 Dispensing devices shall:
(1) Be rigidly mounted;
(2) Be protected from vehicle damage by at least one of the following:
   (a) The dispensing device shall be mounted on a concrete platform at least six inches in
       height. Vertical barriers shall be installed at the ends of pumps

42.5.3.6.3. Replace with the following:
42.5.3.6.3 **Maintenance.** At least annually or when maintenance to dispensing devices is
necessary and such maintenance is capable of causing accidental release or ignition of liquid, the
following precautions shall be taken before such maintenance is begun:

42.7.2.1*. Delete
42.7.2.4.3. Add
42.7.2.4.3 No gasoline shall be handled outside of storage tanks or portable gasoline tanks except in approved safety cans or approved metal or plastic containers, and they shall be kept tightly closed except when in use. Containers used for the handling and storage of gasoline in garages shall have a total quantity not to exceed 12 gallons.

42.7.2.5.3. Replace with the following:
42.7.2.5.3 Fire Suppression Systems. For attended self-serve facilities, automatic fire suppression systems shall be installed in accordance with the appropriate NFPA standard, manufacturers’ instructions, and the listing requirements of the systems.

42.7.4.5 through 42.7.4.5(2)(b). Add
42.7.4.5 The dispensing of motor fuel by means of self-service automated dispensing systems shall be permitted, provided that the applicant for such a system has submitted complete plans and specifications of the proposed installation to the State Fire Marshal, accompanied by the required examination fee as authorized in M.G.L. c. 7, § 3B and has obtained approval of such plans, and further provided that there is compliance with the following:

(1) Attended Self-Service Motor Fuel Dispensing Facility MAY BE ALLOWED PROVIDED THAT:

(a) The service station is under the control of the owner, operator, or duly authorized employee who shall be on duty at all times while motor fuel is being sold or dispensed.

(b) The motor fuel shall be dispensed only by a competent licensed motor vehicle operator or by the service station attendant.

(c) Approved signs bearing the wording "Extinguish All Smoking Materials" and "Stop Engine While Refueling" shall be conspicuously posted at both ends of the pump dispensing island visible to approaching vehicles. All approved signs required shall consist of block letters not less than two inches in height and be either red letters on a white background or white letters on a red background.

(d) The controlling mechanism console providing power to the pump motor is in constant attendance by the owner, operator or duly authorized employee at all times while motor fuel is being dispensed and is properly protected against physical damage from motor vehicles. Constant attendance shall mean that the console operator must be at the console during its operation.

(e) There is constant contact between the controlling mechanism console operator and the pump island by means of an intercommunication system which shall be maintained in proper operating condition at all times while motor fuel is being dispensed.
(f) A means is provided for the controlling mechanism console operator to observe the filling operation at each vehicle, and the dispensing of motor fuel shall be continuously observed by the console operator during the time that any of the pumps have been activated to dispense motor fuel.

(g) The controlling mechanism console includes a disconnect switch which will instantly cut off all pumping power to all motor fuel pumps at the service station.

(h) The controlling mechanism console, switches and related equipment are of a design and type listed for use with the dispensing devices.

(i) Any person, firm, or corporation constructing a self-service facility or making changes or alterations, in the method of dispensing motor fuel, or to the pre-engineered fixed fire extinguishing system(s) other than normal maintenance, or to the self-service dispensing island arrangement(s) resulting in a change of hazard area protection, or environmental changes resulting in the inability of a console operator to constantly observe the fuel dispensing operation, shall notify the Head of the Fire Department, in writing, prior to submitting plans to the State Fire Marshal.

(j) Self-service automated motor fuel dispensing systems shall be equipped with an overhead fixed fire extinguishing system of a type approved by the State Fire Marshal, details of which shall be included with plans submitted to the State Fire Marshal for approval.

(k) The use of automatic credit card reading devices as a means of payment at the pump island shall be allowed provided that:
   (i) Each sale shall be individually authorized by the self-serve attendant;
   (ii) The automatic credit card reading device shall not be used as physical authorization for the dispensing of motor fuel; and
   (iii) The automatic credit card reading devices are included on plans submitted to and approved by the State Fire Marshal.

(2) Split island facilities shall be permitted provided that:
   (a) There shall be installed on the full service islands an additional switch which will activate the overhead fire extinguishing system, and deactivate power to the self-service island dispensing pumps
   (b) Whenever the self-service dispensing mechanism is in operation, the service station operator shall be within visual range of the filling operation by either being at the controlling mechanism console or at the full service pump island within 25 feet of the switch.

42.7.5 through 42.7.5.6*. Delete

42.7.6.3. Replace with the following:
42.7.6.3 The dispensing hose shall not exceed 150 ft (46m) in length.

42.9.1.2(4). Add
(4) Foreign vessels regulated under Title 33 CFR 155 and U.S. and foreign public vessels, i.e. warships, naval auxiliaries or other ships owned and operated by a country when engaged in non-commercial service.

42.9.3.6 through 42.9.3.6.5 (9). Add

42.9.3.6 Wharf of a Marine Fueling Facility.

42.9.3.6.1 Any wharf of a Marine Fueling Facility shall be equipped with only listed and labeled control valves and devices.

42.9.3.6.2 Authorized Fueling Facility System Operators shall be aware of the location of all such shut off control devices.

42.9.3.6.3 The use of additional shut off control valves in excess of the required minimum shall be permitted to facilitate fuel system servicing and to control fuel flow during both normal and emergency operation.

42.9.3.6.4 Cast iron valves or fittings shall not be used in any pipe connection located between the tank and dispensing nozzle.

42.9.3.6.5 Items (1), (2) (3) and (5) listed below shall be required for all fixed facilities. Items (4), and (6) shall be permitted on a site specific basis.

1. Dispensing Nozzle shall be approved

2. Dispenser Shut Off.

   (a) All dispensers shall be provided with an approved shut-off valve at the fuel-dispensing unit.

   (b) This valve shall be permitted to be the dispenser unit shut off.

3. Manual Electrical Emergency Fuel Shut-off Pull Stations shall be U.L. listed ;and

   (a) shall be provided to disrupt power to all dispensers and fuel storage tank discharge pump(s).

   (b) These Pull Stations shall be located within 25 ft. of any metering unit; and

   (i) shall be located to be in the path of exit travel.

   (c) Additional pull station shall be provided as required by the Head of the Fire Department or the State Fire Marshal.

   (d) Pull stations shall not be located on gangways.

   (e) All pull stations shall be marked “EMERGENCY FUEL SHUT OFF” in two inch red block capital letters; and

   (i) shall be accessible at all times.

4. Fuel piping systems to floats shall be provided with a readily accessible approved shut off valve on the fixed pier (or land if applicable) within 15 ft .of the flexible connector from the pier (or land) to the float.

   (a) Said shut off controls shall be marked “EMERGENCY FUEL SHUT OFF” in two inch
red block capital letters; and
(i) shall be accessible at all times.

(5) Fuel piping systems on fixed piers shall be provided with a readily accessible shut-off valve on the pier within 4 ft. of the flexible connector to the land and on the land within 15 ft. of the pier.
(a) Shut off controls shall be marked “EMERGENCY FUEL SHUT OFF” in two inch red block capital letters and shall be accessible at all times.

(6) Emergency shut-off valves, incorporating a fusible link or other approved thermally actuated device designed to close automatically in event of fire exposure or severe impact, shall be installed in accordance with the manufacturer’s instructions in the flammable or combustible liquid supply line.
(a) The shut-off valve shall be located at the base of each individual dispenser or at the inlet to the overhead dispenser.
(b) The automatic closing feature of excess flow valves shall be tested at least once per month by manually tripping the hold open device.
(c) The valves shall be readily accessible; and
(i) shall employ cover or similar means located on the shore side of the wharf; and
(ii) shall be so marked by two inch red block capital letters.

(7) Divisional valves shall be installed on the marine wharf so that the maximum length of the piping system is 300 ft. between divisional valves.
(a) Divisional valves shall be marked by two inch red block capital letters.
(b) Each valve shall be clearly identified, by marking with a permanent plate or tag indicating its system function.

(8) At marine fueling facilities where tanks are at an elevation which produces a gravity head on the dispensing unit, the tank outlet shall be equipped with a device, such as a solenoid valve, positioned adjacent to, and downstream, so installed and adjusted that liquid cannot flow by gravity from the tank in case of piping or hose failure when the dispenser is not in use.

(9) Shutoff and check valves shall be equipped with a pressure-relieving device that will relieve any pressure generated by thermal expansion of the contained liquid back to the storage tank.

42.9.3.7. Add

42.9.3.7 Shut-off and check valves shall be equipped with a pressure-relieving device that will relieve any pressure generated by thermal expansion of the contained liquid back to the storage tank.

42.9.3.8. Add

42.9.3.8 Marine piping systems shall contain a sufficient number of approved valves to control the flow of flammable or combustible liquid during normal operations and to provide adequate shut-off protection in the event of fire or physical damage.
42.9.4.1.1. Add
42.9.4.1.1 Said hose shall be a rubber like material resistant to petroleum products and petroleum product, containing a continuous static ground, not exceeding 30’ in length. Where hose length at a marine fueling facility exceeds 30’ the hose shall be secured by a hose retrieving mechanism so as to protect it from damage.

42.9.4.8 through 42.4.8.2. Add
42.9.4.8 If a remote pumping system is used, a labeled or listed rigidly anchored emergency shut-off valve incorporating a fusible link or other thermally actuated device, designed to close automatically in event of fire exposure or severe impact, shall be installed in accordance with the manufacturer's instructions in the flammable or combustible liquid supply line at the base of each individual dispenser or at the inlet of each overhead dispenser.
42.9.4.8.1 The automatic closing feature of this valve shall be checked at least once a month by manually tripping the hold-open linkage.
42.9.4.8.2 An emergency shut-off valve incorporating a slip-joint feature shall not be used.

42.9.4.9. Add
42.9.4.9 The fueling facility shall be located so as to minimize exposure to all other operational marina or pleasure boat berthing area facilities. Where tide and weather conditions permit, all flammable and combustible liquid fuel handling shall be outside the main berthing area. Inside marina or pleasure boat berthing area, fueling facilities shall be so located that in case of fire aboard a boat alongside, the danger to other boats near the facility will be minimal. No vessel or craft shall be made fast to or berthed at any marine wharf, except during fueling operations, and no vessel or craft shall be made fast to any other vessel or craft occupying a berth at a marine wharf, or other fueling facility.

42.9.4.10. Add
42.9.4.10 Fueling of floating marine craft at other than a fueling facility is prohibited except by prior written authorization by the AHJ.

42.9.7.4 through 42.9.7.4.1. Add
42.9.7.4 All marine fueling facilities shall provide roadways to provide for adequate access for emergency vehicles, including fire apparatus to within 150 feet (45m) or less travel distance to the shore end of the marine wharf.
42.9.7.4.1 When approved by the Head of the Fire Department, a manual standpipe system shall be permitted to be installed along marine wharfs when conditions are such that providing fire

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department access roads to within 150 feet (45m) of the shore end of the marine wharf is not practical.

42.9.7.5 through 42.9.7.5.3. Add
42.9.7.5 A manual standpipe system shall be installed at all fueling wharfs where the travel distance from the closest point of access for the fire department apparatus to the most remote accessible portion of the marine wharf exceeds 150 feet (45 m).
42.9.7.5.1 The type and location of standpipe systems and standpipe outlets shall be approved by the Head of the Fire Department, but in no case shall they be more than 150 feet (45 m) of travel distance apart, and no more than 150 feet (45 m), travel distance from a dead end.
42.9.7.5.2 The fire department pumper can be considered as a standpipe system discharge point if it is within 150 feet (45 m) of the shore end of the marine wharf.
42.9.7.5.3 The standpipe piping shall be no less that 3 inches (76.2 mm) inside side nominal diameter and sized to provide a minimum of 500 gpm (1893L/min) at 100 psi outlet pressure at the hydraulically most remote outlet with an outlet.
42.9.7.6 through 42.9.7.6.3. Add
42.9.7.6 Hydrants shall be provided on marine fueling facility wharfs where fire apparatus is expected to drive onto the wharf to protect a fueling facility.
42.9.7.6.1 The hydrants shall be installed, tested and maintained in accordance with NFPA 307 in locations approved by the Head of the Fire Department.
42.9.7.6.2 In a hydrant shall be within 100 ft (30.48m) of the required standpipe connection.
42.9.7.6.3 If available, the type and capacity of the water supply system for the fire hydrants shall be sufficient to deliver adequate water and water pressure as determined by the Head of the Fire Department, who shall take into consideration the relative fire hazard, the property involved, the availability of marine firefighting equipment, and the time frame that the water supply volume will be required to be maintained.

42.9.8.4. Add
42.9.8.4 No cargo tank, portable tank or transfer tank shall be mounted in the bed or body of any vehicle which contains a hoist to raise such bed or body.

42.9.9.8 through 42.9.9.8(4). Add
42.9.9.8 Vehicles, other than approved tank vehicles, shall be permitted to transport combustible liquids in transfer tanks, provided that an application has been made and a permit to transport has been issued. The vehicle shall be approved for the transportation of the combustible liquid provided that:

1. The tank shall be constructed of not less than 14 USS gauge standard open hearth steel tank plate or 1/8 inch aluminum and otherwise constructed to withstand any stress to which it may reasonably be subjected.

2. The liquid is drawn only from the top of the tank by means of a suitable pump to which is attached a durable hose equipped with a self-closing nozzle.

3. All openings in the tank are secured by plugs or caps maintained wrench tight while the vehicle is in transit.

4. The tank is securely mounted to the vehicle body or truck bed and its capacity does not exceed 110 gallons.

42.9.9.9. Add

42.9.9.9 Any flammable or combustible liquid transported by other than cargo tank, portable tank or transfer tank shall be transported in listed containers, with all openings tightly closed, and in an upright and secured position.

42.9.10.1(5). Add

42.9.10.1(5) In the event of a leak, rupture, spill, overflow or other incident involving the handling of flammable or combustible liquids, at the fuel facility, both the Fire Department and the State Fire Marshal shall be notified immediately by the fueling operations supervisor or the permit holder.

42.10 through 42.10.5.22. Delete

42.11.1. Delete

42.11.1.1. Replace with the following:

42.11.1.1 Section 42.11 shall apply to the design, installation, operation, appliance and maintenance of gaseous fuels and for fueling vehicle (dispensing) systems, equipment and associated storage, including vehicle fueling (dispensing) systems. Such installation, operation, appliance, equipment, system, condition, arrangement, level of protection, fire-resistant construction, or other feature shall thereafter be continuously maintained in accordance with Building Code and the approved design documents.

42.11.1.2 through 42.11.1.5. Delete

42.11.1.9. Add

42.11.1.9 Marker Plate, Sign. Any liquefied gaseous system container or cylinder installation shall be provided with a marker plate or sign indicating the name and telephone number of the...
supplier, facility maintenance person, owner, or operator responsible for responding to the permitted location in the event of an emergency.

42.12.1 through 42.12.11. Add

42.12.1 Fuel Vessels and Barges.
42.12.2 No fuel barge or fuel vessel shall be permitted to anchor or moor for fueling purposes within a marina or pleasure boat berthing area.
42.12.3 A 200 ft (60.96m) radius marine fueling safety zone shall be maintained between the fuel barge, or fuel vessel acting as a fueling facility, and any marina or pleasure boat berthing area.
42.12.4 This 200 ft. (60.96m) radius marine fueling safety zone if required, shall be subject to written review by the Head of the Fire Department in specific instances.
42.12.5 The State Fire Marshal shall approve the marine fueling safety zone written review.

42.12.6 Fuel barges and fuel vessels shall be subject to assignment as to location by the harbor master in accordance with the authority vested in him by M.G.L. c. 102. When located on waters where no harbor master is provided, such assignment shall be made by the State Fire Marshal. The State Fire Marshal shall approve the permanent assignment of fuel barges and fuel vessels.
42.12.7 Fuel barges, fuel vessels, and fueling facilities shall be open to inspection by the AHJ or a harbor master having jurisdiction.
42.12.8 Flammable and combustible liquids kept for resale on fuel barges or fuel vessels shall be stored in metal tanks. Such tanks shall be constructed, braced and secured so as to prevent injury, rupture or displacement and to withstand the normal stresses to which they may be subjected. Tanks constructed in accordance with Code of Federal Regulations Title 46 CFR Part 30-40, subchapter D-Tank Vessels, will be considered as complying with the requirements of this chapter.
42.12.9 Every fuel barge or fuel vessel used for the keeping of flammable or combustible liquids for resale and every fuel barge or fuel vessel used for the transportation of flammable or combustible liquids, shall be identified by a name marked in clearly legible letters not less than four inches in height on some clearly visible exterior part of the port and starboard bow and the stern of that fuel barge or fuel vessel.
**42.12.10** Fuel barges and fuel vessels which, in the opinion of the Head of the Fire Department or the State Fire Marshal, pose a substantial fire hazard due to the cargo they are carrying or the location they are moored shall rig fire warps. Fire warps shall consist of hausers of sufficient size to take the barge or vessel under tow in the event of an emergency. Fire warps shall be secured to the deck of the barge or vessel and shall hang over the outboard side to within six feet of the surface of the water. An eye shall be spliced into the outboard end of the warp of sufficient size to permit the rapid attachment of a towing shackle.  

**42.12.11** Every fuel barge, fuel vessel, or fueling facility used for the keeping of flammable or combustible liquids for resale shall be provided with such fire extinguishing appliances as required by Section 13.6.

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**42.13.** Add  

**42.13 Containers and Movable Tanks.**

**42.13.1 through 42.13.4.** Add  
**42.13.1** The temporary use of movable tanks in conjunction with the dispensing of liquids into the fuel tanks of marine craft shall be permitted. Such use shall only be made with the approval of the AHJ.  
**42.13.2** Class I or Class II liquids shall not be dispensed into a portable container unless the container is constructed of metal or is listed for its use, has a tight closure, and is fitted with a spout or is so designed that the contents can be dispensed without spilling.  
**42.13.3** Portable containers of 12 gal (45 L) capacities or less shall not be filled while they are in or on a marine craft.  
**42.13.4** Smoking is prohibited on any fuel barge or fuel vessel used for the keeping of flammable or combustible liquids for resale and on any fuel barge or fuel vessel used for the transportation, storage or delivery of flammable or combustible liquids.

**42.14.1.** Add  
**42.14.1** All electrical components shall be installed and used in accordance with the *Massachusetts Electrical Code.*

**42.14.2.** Add  
**42.14.2** Clearly identified emergency switches, readily accessible in case of fire or physical damage at any dispensing unit, shall be provided on each marine wharf so interlocked as to shut off power to all pump motors from any individual location and to reset only from the master switch at the main electrical disconnect panel. Each such switch is to be identified by an approved sign stating "EMERGENCY PUMP SHUTOFF" in two inch red block capital letters.

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42.14.3. Add
42.14.3 A readily accessible valve to shut off the liquid supply from shore shall be provided in each pipeline, at or near the approach to the pier and at the shore end of each marine pipeline adjacent to the point where each flexible hose is attached. Each valve shall be marked "EMERGENCY FUEL SHUT OFF" in two inch red block capital letters.

42.15. Add
42.15 Transportation by Transfer Tanks.

42.15.1. Add
42.15.1 Vehicles other than approved tank vehicles shall be permitted transport combustible liquids in transfer tanks, provided that an application has been made and a permit to transport has been issued in accordance with this Code.

42.15.2 through 42.15.2(5). Add
42.15.2 The vehicle shall be approved for the transportation of the combustible liquid provided that:
(1) The tank is securely mounted to the vehicle body or truck bed and its capacity does not exceed 110 gallons;
(2) The tank shall be constructed of not less than 14 USS gauge standard open hearth steel tank plate or 1/8 inch aluminum and otherwise constructed to withstand any stress to which it may reasonably be subjected;
(3) The liquid is drawn only from the top of the tank by means of a suitable pump to which is attached a durable hose equipped with a self-closing nozzle;
(4) All openings in the tank are secured by plugs or caps maintained wrench tight while the vehicle is in transit;
(5) The vehicle is equipped with a fire extinguisher in accordance with Section 13.6.

42.15.3. Add
42.15.3 Any flammable or combustible liquid transported by other than cargo tank, portable tank or transfer tank shall be transported in listed and labeled containers, with all openings tightly closed, and in an upright and secured position.

42.15.4. Add
42.15.4 No person shall transport by cargo tank or transport vehicle, any combustible liquid within the Commonwealth unless such liquid is transported in accordance with the requirements of this Chapter. No person shall transport by cargo tank or transport vehicle, any flammable liquid unless such liquid is transported in accordance with U.S. DOT, Title 49 CFR.

Chapter 44 Solvent Extraction
Chapter 44 Delete in its entirety

Chapter 45 Combustible Fibers
45.5.3.1. Replace with the following:
45.5.3.1 Quantities exceeding 100 ft³ (2.8 m³) of loose combustible fibers, but not exceeding 500 ft³ (14.2 m³), shall be permitted to be stored in rooms or compartments in which the floors, walls, and ceilings have a fire-resistance rating of not less than 1 hour.

45.6.1.1. Replace with the following:
45.6.1.1 No single block or pile shall contain more than 7,500 ft³ (212.376 m³) of combustible fibers, exclusive of aisles or clearances. However, a single block or pile shall be permitted containing 25,000 ft³ (708 m³) of combustible fibers, exclusive of aisles or clearances, if the criteria of NFPA 13 are met.

Chapter 50 Commercial Cooking Equipment
50.2.1.1(1) through 50.2.1.1(2) (b). Add
(1) Type I hoods are required for the removal of grease-laden vapors provided they meet all the material and performance requirements of this Code.

(2) The following are types of hoods used for exhaust:
   (a) Type I. Hoods designed for grease exhaust applications.
   (b) Type II. Hoods designed for heat and steam removal and other nongrease applications.
      These hoods are not applicable to this standard.
50.2.1.2.1. Add

**50.2.1.2.1 Certificates.** Certificates, where required, shall comply with *Section 1.13.*

50.5.4.1. Add

**50.5.4.1** If the AHJ determines that the exhaust system of such operation has not been inspected pursuant to *Section 50.5.4* for grease buildup within the past 12 month period, the AHJ shall issue an order to cease such operation pending such inspection. *Section 50.5.4.1* shall not limit the ability of the AHJ to issue such other reasonable orders relating to compliance with this Chapter.

50.5.6.2*. Replace with the following:

**50.5.6.2** Hoods, grease removal devices, fans, ducts, and other appurtenances shall be cleaned to remove combustible contaminants to a minimum of 50 μm (0.002 in.). A measurement system of deposition shall be established for each facility to trigger a need to clean, to verify the requirements contained in *Table 50.5.4,* in addition to a time reference based on equipment emissions.

50.5.6.2.1 Add

**50.5.6.2.1** The owner or operator of the commercial cooking operation, or employee thereof, shall not be prohibited from conducting the actual cleaning and grease removal of hoods, grease removal devices, fans, ducts and other appurtenances of his or her own commercial cooking operations, as long as said owner, operator, or employee holds a "restricted" Certificate of
Competency issued by the State Fire Marshal. However, this provision does not allow such owner, operator, or employee to conduct such cleaning services for any other commercial kitchen operation.

50.5.6.13. Replace with the following:
50.5.6.13 When an exhaust cleaning service is used, a certificate showing the name of the servicing company, the name of the person performing the work, and the date of inspection or cleaning shall be maintained on the premises. [96:11.6.13]. The content, size, design, and placement of any label shall be prescribed by the State Fire Marshal.

50.5.6.14.1 through 50.5.6.14.1.2. Add
50.5.6.14.1 If a qualified individual determines that a commercial cooking system, after cleaning or inspection thereof, is not in compliance with this Chapter, relative to grease buildup and related contaminants, said individual shall, within 48 hours, notify in writing, on a form prescribed by the State Fire Marshal, the Head of the Fire Department of the location of said system and the nature of such non-compliance. A copy of said form shall also be given to the owner and operator of the system.
50.5.6.14.1.1 A record of each inspection for grease and related contaminants and each cleaning activity relating to grease buildup shall be produced by the qualified person who conducted said inspection or cleaning. Said record shall include:
(1) the dates of inspection or cleaning
(2) location
(3) the CR number for the contractor and CC number for the inspector and cleaner
(4) Signatures of each involved in the inspection and cleaning
(5) Any other information as determined by the State Fire Marshal.
(6) A copy of such record shall be maintained by:
   (a) The operator within the building or structure where the system is located; and
   (b) The qualified person who conducted said inspection or cleaning activity.
50.5.6.14.1.2 Such records shall be open to the inspection of the AHJ during regular hours of operation and shall be maintained for a period of at least three years.

Chapter 52 Stationary Storage Battery Systems.
52.2.1. Delete

Chapter 53 Mechanical Refrigeration.
53.1.2.1. Delete

Chapter 54 Ozone Gas–Generating Equipment

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Chapter 54 Delete in its entirety.

**Chapter 60 Hazardous Materials**

60.1.2(14). Add

*60.1.2(14) Consumer fireworks, 1.4G in mercantile occupancies complying with Section 65.10 [5000:34.1.1.2]*

60.1.2 (15) through 60.1.2(17). Add

(15) Closed piping systems containing flammable or combustible liquids or gases utilized for the operation of machinery or equipment.

(16) The storage or utilization of materials for agricultural purposes on the premises complying with the Building Code Appendix 115 Section C.

(17) The storage of black powder, smokeless propellants, small arms primer in use group M or R-3 and special industrial explosive devices in use group B, F, M, and S provided the storage conforms to Chapter 65.

60.4.2.1.1.3. Replace with the following:

60.4.2.1.1.3 A permit shall not be issued in excess of these quantities until such time that the Building Official has confirmed the facility is classified and constructed as the appropriate a H- use, control area, or is exempt.

60.4.2.1.1.3 Replace table as follows:

Table 60.4.2.1.1.3 Maximum Allowable Quantity (MAQ) of Hazardous Materials per Control Area.

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<th>Material</th>
<th>Physical Hazard Materials</th>
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<th>Combustible dust&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Combustible fiber&lt;sup&gt;1&lt;/sup&gt;</th>
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<td></td>
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<td>IIB</td>
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<td>3</td>
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<td>N/A</td>
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<td></td>
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<td></td>
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<th>N/A</th>
<th>N/A</th>
<th>45&lt;sup&gt;d&lt;/sup&gt;</th>
<th>N/A</th>
<th>N/A</th>
<th>N/A</th>
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<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
<td>1000&lt;sup&gt;c,d&lt;/sup&gt;</td>
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<td>N/A</td>
<td>1000&lt;sup&gt;c,d&lt;/sup&gt;</td>
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<tr>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>(150)&lt;sup&gt;c,d&lt;/sup&gt;</td>
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<tr>
<td>Flammable Liquid&lt;sup&gt;m&lt;/sup&gt;</td>
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</tr>
<tr>
<td>IA</td>
<td>2</td>
<td>N/A</td>
<td>30&lt;sup&gt;d&lt;/sup&gt;</td>
<td>N/A</td>
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<td>Combination (IA, IB, IC)</td>
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<td>120&lt;sup&gt;c,d,n&lt;/sup&gt;</td>
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<td>2</td>
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</table>

UD: Unclassified  detonable

For SI units, 1 lb = 0.454 kg; 1 gal = 3.785 L; 1 scf = 0.0283 Nm³. N/A: Not applicable. NL: Not limited. NP: Not permitted.

Note: The hazardous material categories and MAQs that are shaded in this table are not regulated by Chapter 60 or NFPA 400 but are provided here for informational purposes. See Chapter 2 for the reference code or standard governing these materials and establishing the MAQs. In accordance with 1.1.1.2 of NFPA 400, materials having multiple hazards that fall within the scope of NFPA 400 shall comply with NFPA 400.

a. Table values in parentheses correspond to the unit name in parentheses at the top of the column. The aggregate quantity in use and storage is not permitted to exceed the quantity listed for storage.

b. Measured at NTP or 70°F (21°C) and 14.7 psia (101.3 kPa).

c. Quantities are permitted to be increased 100 percent where stored or used in approved cabinets, gas cabinets, exhausted enclosures, gas rooms explosives magazines, or safety cans, as appropriate for the material stored, in accordance with this code. Where footnote d also applies, the increase for both footnote c and footnote d is permitted to be applied accumulatively.

d. Maximum quantities are permitted to be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems. Where footnote c also applies, the increase for both footnote c and footnote d is permitted to be applied accumulatively.

e. The permitted quantities are not limited in a building equipped throughout with an automatic sprinkler system in accordance with NFPA 13.

f. A maximum quantity of 200 lb (91 kg) of solid or 20 gal (76 L) of liquid Class 3 oxidizer is permitted where such materials are necessary for maintenance purposes, operation, or sanitation of equipment. Storage containers and the manner of storage are not permitted to exceed the quantity listed for storage.
required to be approved.
g. Allowed only where stored or used in gas rooms or approved cabinets, exhausted gas cabinets or exhausted enclosures, as specified in this Code. [5000: Table 34.1.3.1]
h. Conversion. Where quantities are indicated in pounds and when the weight per gallon of the liquid is not provided to the AHJ, a conversion factor of 10 lb/gal (1.2 kg/L) shall be used.
i. Permitted only in buildings equipped throughout with an automatic sprinkler system in accordance with NFPA 13.
j. None allowed in unsprinklered buildings unless stored or used in gas rooms or in approved gas cabinets or exhausted enclosures, as specified in this Code.
k. With pressure-relief devices for stationary or portable containers vented directly outdoors or to an exhaust hood. [55: Table 6.3.1.1]
l. Flammable gases in the fuel tanks of mobile equipment or vehicles are permitted to exceed the MAQ where the equipment is stored and operated in accordance with this Code. [400: Table 5.2.1.1.3]
m. The quantities of alcoholic beverages in retail and wholesale sales occupancies shall not be limited provided the liquids are packaged in individual containers not exceeding 1.3 gallons. In retail and wholesale sales occupancies, the quantities of medicines, foodstuffs or consumer products, and cosmetics containing not more than 50 percent by volume of water-miscible liquids with the remainder of the solutions not being flammable, shall not be limited, provided that such materials are packaged in individual containers not exceeding 1.3 gallons.

n. Containing not more than the maximum allowable quantity per control area of Class IA, IB or IC flammable liquids.
o. The maximum allowable quantity shall not apply to fuel oil storage complying with Section 603.3.2 of the International Fire Code in accordance with the building code.
p. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the International Fire Code in accordance with the building code.
q. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with the building code.
r. Densely packed baled cotton that complies with the packing requirements of ISO 8115 shall be included in this material class in accordance with the building code.
s. The following shall not be included in determining the maximum allowable quantities in accordance with the building code:
   i. Liquid or gaseous fuel in fuel tanks on vehicles.
   ii. Liquid or gaseous fuel in fuel tanks on motorized equipment operated in accordance with the International Fire Code.
   iii. Gaseous fuels in piping systems and fixed appliances regulated by the International Fuel Gas Code.
   iv. Liquid fuels in piping systems and fixed appliances regulated by the International Mechanical Code.
   v. Alcohol-based hand rubs classified as Class I or II liquids in dispensers that are installed in accordance with Sections 5705.5 and 5705.5.1 of the International Fire Code. The location of the alcohol-based hand rub (ABHR) dispensers shall be provided in the construction documents.
t. Where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with the building code.
u. For use of control areas, see the building code.
v. Quantities in parenthesis indicate quantity units in parenthesis at the head of each column.

60.4.2.1.1.3.1. Add
60.4.2.1.1.3.1 A permit shall not be issued in excess of these quantities until such time it is confirmed that the facility is classified and constructed in accordance with the Building Code as the appropriate H-use, control area or is exempt.

60.4.2.1.2 through 60.4.2.1.12. Delete

60.4.2.1.2 Table through Table 60.4.2.1.8 and Table 60.4.2.1.10.1. Delete

60.5.1.3.7.1. Replace with the following:
60.5.1.3.7.1 The person, firm, or corporation responsible for an unauthorized release shall institute and complete all actions necessary to remedy the effects of such unauthorized release, whether sudden or gradual, at no cost to the AHJ, in accordance with MGL 21E, “Massachusetts Oil and Hazardous Material Release Prevention Act”.

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60.5.1.4.3.2(5) through 60.5.1.4.3.2(9) Add
(5) Identify Emergency Coordinators who will either be on the premises or on call and available to respond to an emergency within one hour of an emergency situation
(6) Maintain an updated list containing the names, and the office, home, and/or mobile telephone number(s) of all designated Emergency Coordinators and the times of their availability. If for a particular period more than one individual is listed, the primary Emergency Coordinator shall be identified and others shall be listed in the order in which they will assume responsibility to fulfill the requirements of this role
(7) Maintain and provide to the AHJ, a facility floor plan, not to scale, showing the locations of the hazardous material stored, the typical volumes, location of emergency spill containment equipment (pads, booms, etc.)
(8) For those facilities covered by Section 60.8 and having either Category 3, Category 4 and Category 5 processes, their Emergency Response Liaison personnel shall communicate to the fire department any concerns and establish a protocol in conjunction with the AHJ on the shutdown of any of the process that would pose a risk to the public in the event of loss of any controls. This protocol shall include a facility liaison to meet with the Incident Commander upon arrival to ensure a safe shutdown if necessary
(9) Notify the AHJ of any material changes to the Emergency Response Plan, including the name of the primary Emergency Coordinator, within 14 calendar days of the change.

60.5.1.19.1.1. Replace with the following:
60.5.1.19.1.1 Underground storage tanks are regulated by 310 CMR: Department of Environmental Protection.

60.7. Replace with the following:
60.7 Performance Alternative. In lieu of complying with Chapter 60 in its entirety, occupancies containing high hazard Level 1 to high hazard Level 5 contents shall be permitted to comply with Chapter 10 of NFPA 400, Hazardous Materials Code, subject to an independent review in accordance with 1.15 and a copy, including its recommendations, shall be submitted to the Building Official.

60.8 through 60.8.1.1(20). Add
60.8 Hazardous Material Process or Processing.
60.8.1 General. This section shall apply to both new and existing facilities that process hazardous materials.

60.8.1.1 This section shall not apply to the following:
(1) Motor vehicle service stations regulated in accordance with Chapter 30;
(2) Construction and maintenance projects regulated in accordance with this Code;
(3) Products that are designed pre-mixed in accordance with the manufacturer’s instructions or products that are labeled and packaged for sale to the consumer at retail;
(4) The activities of healthcare professional offices or facilities under the supervision of a licensed medical doctor, dentist, or veterinarian;
(5) Retail facilities such as pharmacies, hardware stores, department stores, or restaurants regulated by and in accordance with the provisions of this Code;
(6) Refrigeration systems which employ a refrigerant other than ammonia or LPG;
(7) The processing or treatment of potable water and sanitary wastewater;
(8) Wastewater treatment operations that are operated by Grades 1I, 1M, 2I, and 2M operators as classified according to 257 CMR 2.00: Certification of Operators of Wastewater Treatment Facilities;
(9) The consumption of fuels solely for the purpose of the operation of equipment, such as generators, torches, and consumptive use boilers regulated in accordance with the provisions of this Code;
(10) The storage of hazardous materials in atmospheric vessels, if they are maintained below the stored material’s normal boiling point without benefit of chilling, refrigeration, or heat;
(11) The processing of hazardous materials and their byproducts which has a hazard ratings of 2 or less, according to criteria of NFPA 704;
(12) Hazardous waste activities regulated and in compliance with the provisions of 310 CMR 30.00: Hazardous Wastewater;
(13) Biological and medical activities regulated by the Department of Public Health;
(14) Handling and use of liquid nitrogen cooling systems at atmospheric pressure;
(15) The handling and repackaging of products regulated in accordance with the provisions of this Code;
(16) Use of inert gas;
(17) Swimming pools regulated by Department of Public Health under 105 CMR 435: Minimum Standards for Swimming Pools (State Sanitary Code: Chapter V);
(18) Air pollution control devices that are a component of a process regulated by Massachusetts Department of Environmental Protection under 310 CMR 7: Air Pollution Control;
(19) The production and handling of explosives and fireworks regulated in accordance with Chapter 65;
(20) The equipment, process, handling, storage, or use of compounds, liquids, pesticides, fertilizers, or soil treatments regulated in accordance with the provisions of this Code or as regulated by the Board of State Examiners of Plumbers and Gas Fitters.

60.8.1.1.1. Add
60.8.1.1.1 Permits. Permits where required, shall comply with Section 1.12.

60.8.2 Add
60.8.2 Terms. As used in Chapter 60, the enclosed terms shall have the following meaning assigned to them.

60.8.2.1 through 60.8.2.3 (6). Add
60.8.2.1 Capacity The nominal capacity of the vessel as specified by the manufacturer.

60.8.2.2 Category 3 Hazard Evaluation A written evaluation performed or procedure conducted to identify hazards, including adjacent vessels that contain hazardous materials, and determine the required preventive, protective, and safety control measures in conformance with recognized and generally accepted good engineering and safe work practices associated with a particular process or condition and the facility wherein such process or condition is taking place.

60.8.2.3 Category 4 Limited Safety Program A documented evaluation, policy, or required procedure to ensure compliance with all of the following:
(1) Process information including, but not limited to, MSDS for the chemicals and products being processed, process chemistry, piping and instrumentation diagram, safety relief design, process control safety alarms and interlocks;
(2) Facility suitability including, but not limited to, the Building Code compliance, electrical hazard (Check article 500) classification, ventilation design, fire alarm and fire protection, spill containment and control;
(3) A process hazard safety analysis including but not limited to, effects in the event of failure, suitable administrative and engineering controls to minimize failure and to control unanticipated releases, and emergency responses to safeguard life and property;
(4) Written procedures, including routine operating and maintenance, as well as precautionary, shut-down and emergency response measures;
(5) A written training program for operating and maintenance personnel and outside contractors whose work or activity may affect process safety;
(6) A written records management protocol which tracks any changes, including but not limited to changes to chemicals, equipment, operating procedures training program. Such records shall include the date of such change and the name of the manager responsible for such change; and an internal review at a maximum every three years.

60.8.2.5 through 60.8.2.8. Add
60.8.2.5 Competent Professional A person who, based upon education, training, skill, experience or professional licensure or a combination thereof, has a specialized knowledge beyond that of an average person, about risk assessment, process hazard analysis, and/or process safety management principles, for the process or processes being evaluated.

60.8.2.6 Facility A structure, building or complex of buildings or structures where hazardous materials are processed.
60.8.2.7 Facility Category Since multiple hazardous material processes may exist within a facility, each facility shall identify all the categories of processes present and verify compliance with all the categories for each process identified at the facility.

60.8.2.7.1 For purposes of determining facility category classification under Section 60.8, the highest level of actual or possible hazardous process category shall determine the appropriate Facility Category.

60.8.2.8 High-hazard Group H High-hazard Group H occupancy includes, among others, the use of a building or structure, or a portion thereof that involves the manufacturing, processing, generation or storage of materials that constitute a physical or health hazard in quantities in excess of those allowed in control areas complying with the Building Code.

60.8.2.9. Add
60.8.2.9 Incident An unplanned event arising from a hazardous material process resulting in a fire, explosion, reportable release, or injury.

60.8.2.10. Add
60.8.2.10 Mixture A combination of materials in a vessel. The mixture shall be considered a different material from those before being added to the vessel, regardless of whether a reaction or change of state occurred in the vessel, and regardless of whether the mixture is homogeneous or heterogeneous. Material hazards of the mixture shall be classified based on the hazards of the mixture as a whole, in accordance with nationally recognized reference standards, by an approved qualified organization, individual, or Material Safety Data Sheets (MSDS), or by other approved methods.

60.8.2.11. Add
60.8.2.11 Person An individual, firm, corporation, company, partnership, association, including any officer, trustee, assignee, receiver, personal representative, designee, manager or employee thereof.

60.8.2.12. Add
60.8.2.12 Vessel The container in which partial or the actual process takes place. Examples of vessels are beakers, pails, tanks, reactor kettles, pipe reactors, and drums. The size of a vessel is its capacity.

60.8.3 through 60.8.3.5. Add
60.8.3 Hazardous Process Category Hazardous Material processes shall be defined per 60.8.3.1 through 60.8.3.5.

60.8.3.1 Category 1 Process. A process which involves or produces a Hazardous Material which occurs in a vessel with a capacity that is less than or equal to 2.5 gallons.

60.8.3.2 Category 2 Process. A process which involves or produces a Hazardous Material which occurs in a vessel with capacity that is greater than 2.5 gallons but less than or equal to 60 gallons.

60.8.3.3 Category 3 Process. A process which involves or produces a Hazardous Material which occurs in a vessel that is greater than 60 gallons but is less than or equal to 300 gallons that contains a hazardous material that is processed or a process area that is classified as being a H Occupancy as defined by the Building Code.

60.8.3.4 Category 4 Process. A process which involves or produces a Hazardous Material which occurs in a vessel with a capacity that is greater than 300 gallons and is not considered a Category 5 Process.

60.8.3.5 Category 5 Process. A process which involves or produces Hazardous Material which occurs in a vessel with a capacity that is equal or in excess of threshold quantities stated in 29 CFR 1910.119 or 40 CFR Part 68 and regulated by such standard.

60.8.3.6 through 60.8.3.6.1. Add

60.8.3.6 Multiple Processes. Since multiple hazardous material processes may exist within a facility, each facility shall identify all the categories of processes present and verify compliance with all the categories for each process identified at the facility.

60.8.3.6.1 For purposes of determining category classification under this Code the actual or possible Hazardous Processing activity shall determine the appropriate Category.

60.8.4. Add

60.8.4 Permits. Permits, where required, shall comply with Section 1.12 and 60.8.4.1 through 60.8.4.4.

60.8.4.1 through 60.8.4.1.2. Add

60.8.4.1 No person shall engage in the Process or Processing of any Hazardous Material at any Facility identified in Section 60.8 as Category 2 through Category 5 unless said Facility is in compliance with the permit requirements of the provisions of this Code.

60.8.4.1.1 A permit holder shall apply for the renewal of said permit on an annual basis.

60.8.4.1.2 The application shall contain such information and be in a form as prescribed by the State Fire Marshal.

60.8.4.2. Add

This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
60.8.4.2 An applicant for the permit required by Section 1.12 shall submit an application for Permit to Process Hazardous Material to the Head of the Fire Department on a form prescribed by the State Fire Marshal.

60.8.4.3. Add
60.8.4.3 As provided in M.G.L. c. 148, § 10A the AHJ may deny or withhold the issuance of a permit however, such denial or withholding shall be in writing. Said notice of denial shall contain specifications of the alleged violation or deficiency together with their interpretation of Section 60.8. The AHJ shall be permitted to require technical assistance in accordance with Section 1.15 to evaluate the adequacy of Category 3 or Category 4 process safety conditions, programs, procedures, and practices undertaken at the facility but only after a notice of denial has been properly served upon the person making application.

60.8.4.4. Add
60.8.4.4 Any person who has been permitted to engage in the Process or Processing of Hazardous Material at any Facility or any person creating a new process facility, shall, prior to engaging in any new or modified hazardous material process activity which results in a change to the highest process category authorized by the current permit, notify the Head of the Fire Department of such new change or modification and submit a new application to appropriately modify the existing permit.

60.8.5. Add
60.8.5 Compliance Requirements.

60.8.5.1. Add
60.8.5.1 Facilities operating hazardous material processes as defined by this Code shall maintain, for each process in their facility, the following required documents and procedures at their facility for periodic inspection and review by the Head of the Fire Department to remain in compliance with this Section.

60.8.5.1.1 through 60.8.5.1.1(4). Add
60.8.5.1.1 Category 1 Process Documents. Provide the following documentation for Category 1 processes.

(1) Documentation that adequately demonstrates that the facility maintains and implements a policy in compliance with 29 CFR 1910.1200 and 29 CFR 1910.1450 as applicable, and

(2) Documentation that adequately demonstrates that the facility maintains and implements a policy in compliance with Chapter 66, Flammable and Combustible Liquids; Chapter 67, Flammable Solids, as applicable, and

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(3) Demonstrate compliance with 60.1.5.1 Emergency Action Plan and 60.5.1.4.3.2 (5) through (9).
(4) Comply with the permitting requirements of 1.12 and 60.8.4.

60.8.5.1.2 through 60.8.5.1.2(1). Add
60.8.5.1.2 Category 2 Process Documents. Provide the following documentation for Category 2 processes.
(1) Provide documentation that adequately demonstrates that the facility complies with the requirements for a Category 1 Process in accordance with 60.8.5.1.1
60.8.5.1.3 through 60.8.5.1.3(5). Add
60.8.5.1.3 Category 3 Process Documentation and Analysis. Provide the following documentation and evaluations for Category 3 processes.
(1) Provide documentation that adequately demonstrates that the facility complies with the requirements for a Category 2 Process in accordance with 60.8.5.1.2; and
(2) Complete a Category 3 Hazard Evaluation for each Category 3 process; and
(3) Ensure a Hazard Evaluation policy is in place and has been completed prior to conducting such process or activity modification thereto; and
(4) Implement appropriate process safety controls to mitigate the hazards associated with normal and abnormal operating conditions as identified in the Category 3 Hazard Evaluation; and
(5) Maintain Category 3 Hazard Evaluation documents and records for review by the Head of the Fire Department or Marshal for a minimum of two years following issuance of a permit.

60.8.5.1.4 through 60.8.5.1.4(5). Add
60.8.5.1.4 Category 4 Process Documentation and Analysis. Provide the following documentation and evaluations for Category 4 processes.
(1) Provide documentation that adequately demonstrates that the facility complies with the requirements for a Category 3 Process in accordance with 60.8.5.1.3; and
(2) Complete a Category 4 Limited Process Safety Program for each Category 4 Process.
(3) Ensure a Category 4 Limited Process Safety Program policy is in place and has been completed prior to each process or being modified.
(4) Implement appropriate process safety controls to mitigate the hazards associated with normal and abnormal operating conditions as identified in the Category 4 Process Limited Safety Program; and
(5) Maintain Category 4 Limited Safety Program documents and records for review by the Head of the Fire Department or Marshal for a minimum of two years following issuance of a permit.

60.8.5.1.5 through 60.8.5.1.5(3). Add
60.8.5.1.5 Category 5 Process Documentation and Analysis. Provide the following documentation and evaluation for Category 5 processes.
(1) Provide documentation that adequately demonstrates that the facility complies with the requirements for Category 4 process in accordance with 60.8.5.1.4; and
(3) Maintain Hazard Evaluation documents and records for review by the Head of the Fire Department or Marshal for a minimum of two years following issuance of a permit.

60.8.6 through 60.8.6.1.3 (4). Add

60.8.6 Post-incident Analysis.
60.8.6.1 Post-incident analysis shall be applicable to Category 3 and Category 4 processes. For a Category 5 Process, a copy of the report submitted in accordance with the OSHA or EPA Risk Management Standard, shall be considered acceptable.
60.8.6.1.1 In the event of an incident involving a process in which there is fire department, EMS response, or a notification of unauthorized release, a written post incident analysis must be initiated within 48 hours. Upon completion of the analysis, the AHJ shall be given a duplicate copy of the analysis.
60.8.6.1.2 A completed post-incident written analysis report shall be completed within 45 days, unless an extension is provided by the AHJ for just reason.
60.8.6.1.3 The post-incident analysis report shall provide the following information:
(1) A summary of the cause of the incident and contributing factors;
(2) Recommendations to prevent a future recurrence;
(3) A summary of the dates of implementation of the post-incident analysis recommendations and corrective actions;
(4) A reassessment and confirmation of the category under which the facility is operating or application for a new permit as part of the report.

60.8.7 through 60.8.7.3 (4) Add

60.8.7 Trade Secrets. A facility owner or operator subject to this Code and required to submit to the AHJ a permit application and/or supporting documents may claim information as a trade secret as provided in this Section.
60.8.7.1 A facility owner/operator shall be permitted to withhold the name of a specific hazardous material when notifying the fire department under Section 60.8 if that chemical is claimed as a trade secret or confidential business information.

60.8.7.2 If the hazardous material is claimed as a trade secret:

(1) The generic class or category that is structurally descriptive of the chemical must be provided on the permit application as a matter of public record;

(2) The Material Safety Data Sheet (MSDS) for the hazardous substance shall be available for review on-site by representatives of the Fire Department or the State Fire Marshal.

60.8.7.3 A facility owner or operator shall be permitted to claim information, required under this Code, is treated as confidential and not as a matter of public record if:

(1) The information has not been disclosed to anyone else, other than employees of the facility or the AHJ, an officer or employee of the United States or a state or local government, or anyone who is bound by a confidentiality agreement;

(2) The facility has taken reasonable measures to protect the confidentiality of such information and intends to continue to take such measures;

(3) The information is not required to be disclosed, or otherwise made available to the public under any other federal or state law; and

(4) Disclosure of the information may cause substantial harm to the competitive position of the facility.

60.8.7.4. Add

60.8.7.4 All documentation and records claimed as trade secret or confidential information, including but not limited to the “Permit to Process Hazardous Material Application”, “hazard evaluation documentation”, “process safety program documentation”, shall be clearly marked as “Trade Secret”, “Confidential”, or other words of similar meaning.

Chapter 65 Explosives, Fireworks, and Model Rocketry

Title of Chapter 65. Is modified by adding Cannons, and Mortars to the end of the title.
Explosives, Fireworks, Model Rocketry, Cannons, and Mortars.

65.1.3. Add
65.1.3 Certificates. Certificates, where required, shall comply with Section 1.13.

65.1.4. Add
65.1.4 As used in Chapter 65 the enclosed terms shall have the following meaning assigned to them.

65.1.4.1 through 65.1.4.3. Add
65.1.4.1 A barrier as used in Chapter 65 is an object or structure, such as, but not limited to, a fence with warning sign, or tape, that prohibits or restricts passage or travel.
65.1.4.2 Natural Barrier. A restrictive terrain, or body of water, that in itself, will assist in restricting the display area at a fireworks show without the need for an additional barrier to be erected. Natural barriers must be approved by the State Fire Marshal in advance of a show.
65.1.4.3 Physical Barrier. A structure of substantial strength that is uniformly supported and provides an uninterrupted barrier both vertically and horizontally that consists of a height no less than 40 inches including, but not limited to, snow fencing or its equivalent.

65.2.1. Replace with the following:
65.2.1 The construction, handling, and use of fireworks intended solely for outdoor display as well as the general conduct and operation of the display, shall comply with the requirements of NFPA 1123, Code for Fireworks Display, including its annexs A, D and E.

65.2.3. Add
65.2.3 All storage of display fireworks shall comply with NFPA 1124, Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles.

65.2.4 through 65.2.4.3.1.2. Add
65.2.4 Delivery of Fireworks.
65.2.4.1 Delivery of fireworks shall be made only to authorized persons who are in possession of a valid Certificate of Competency (Fireworks Display) and a Permit to Display Fireworks (Supervised Display of Fireworks).

65.2.4.2 As soon as the fireworks have been delivered to a display site, they shall not be left unattended, and they shall be kept dry.

65.2.4.3 Upon delivery of the fireworks to the display site, members of the public, the audience, spectators, and other persons not otherwise authorized by the AHJ, shall be kept at a distance not less than those specified in NFPA 1123, Table 5.1.3.1: Distances for Outdoor Aerial Shell Display Sites: Minimum Separation Distances from Mortars to Spectators for Land or Water Displays.

65.2.4.3.1 Where it is impractical to locate the delivery vehicle within the perimeter of the display site the vehicle shall be parked and secured.

65.2.4.3.1.1 The minimum secured radius from any point of transfer of fireworks from the vehicle to the display site shall be 150 ft.

65.2.4.3.1.2 Audience members, spectators and the general public shall not be allowed within this area.

65.2.5 through 65.2.5.2.3. Add

65.2.5 Requirements for Display Fireworks.

65.2.5.1 The audience at a supervised display of fireworks shall be restrained behind a physical or natural barrier.

65.2.5.1.1 Such barrier shall clearly define the restricted display site.

65.2.5.1.2 This restricted area shall be defined based on the minimum separation distances specified by NFPA 1123, Table 5.1.3.1: Distances for Outdoor Aerial Shell Display Sites: Minimum Separation Distances from Mortars to Spectators for Land or Water Displays.

65.2.5.2 The operator for use at all times a portable anemometer or similar device for measuring wind velocity shall have available.

65.2.5.2.1 Any supervised display of fireworks shall be stopped immediately in the event that upper level wind conditions cause the fall out area to change and pose a threat to public safety or property.

65.2.5.2.2 A test shot shall be provided to check for high level winds at the request of the AHJ.

65.2.5.2.3 The term high winds as used in this section are when the wind velocity exceeds 20 miles per hour at ground level.

65.2.6 through 65.2.6.1(3). Add

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65.2.6 Nighttime Fireworks. Where fireworks are displayed at night, a thorough search of the display site shall be made by the competent operator immediately after the display and again at first light the following morning to ensure recovery of all unexploded shells.

65.2.6.1 If the competent operator is unavailable due to unforeseen circumstances such as illness or injury, a substitute competent operator, upon approval of the AHJ, shall be permitted conduct the aforementioned searches. A thorough search shall include, but not be limited to:

   (1) A Search as described above; 
   (2) Completed form prescribed by the State Fire Marshal that indicates the start and stop time of the search; and
   (3) Acknowledgement by the operator and Head of the Fire Department or his/her designee that they have completed the requirements of this section.

65.2.7 Fire Department Coordination. The sponsor shall be responsible for the detailing of one or more members of the fire department as may be required by the Head of the Fire Department.

65.2.7.1 The fire department detail shall be on duty from the time the fireworks are delivered to the site until the termination of the display and removal of all fireworks and debris from the site and in compliance with 65.2.6.

65.2.8 Mortar and Shells

65.2.8.1 No fireworks display shall include mortars or shells in excess of 12 inches in diameter, unless the certificate holder shall have obtained prior written approval from the State Fire Marshal.

65.2.8.2 Multiple shot mortar devices using mortars less than three inches in diameter including, but not limited to cakes, and repeaters, shall be buried 7/8 of their length in a trench, mortar trough, or sturdy drum filled with clean sand or substantial wooden boxes.

65.2.8.2.1 The Head of the Fire Department shall be permitted to allow for an equivalent alternative, such as sandbags or racks constructed with material similar to mortar rack construction, provided the same degree of protection is provided.

65.2.8.3 The use of aluminum mortars is prohibited.

65.2.8.4 All supervised displays of fireworks shall be electrically fired. Mortars shall not be reloaded.
65.2.8.5 through 65.2.8.5.4 Add  
65.2.8.5 Electrical Firing Units  
65.2.8.5.1 All electrical firing units shall display a decal issued by the State Fire Marshal for a term determined by the State Fire Marshal.  
65.2.8.5.2 The panel shall contain a key operated safety switch which controls the overall power and functionality of the firing unit.  
65.2.8.5.3 The unit shall be operated in accordance with the manufacturer’s instructions.  
65.2.8.5.4 All electrical firing units, and any associated devices, wiring, or connections shall be adequately maintained.

65.2.8.6 through 65.2.8.6.8. Add  
65.2.8.6 Racks  
65.2.8.6.1 Parallel racks or rows of racks shall be separated by a minimum distance not less than twice the inside diameter of the largest mortar in an adjacent rack.  
65.2.8.6.2 Dense Pack Modular Racks, approved for use on licensed trailers and trailer launched portable barges shall be permitted.  
65.2.8.6.3 Dense Pack Modular Racks shall be made of aluminum or other suitable metal framework system and shall be subject to restrictions and inspections as established by the State Fire Marshal.  
65.2.8.6.4 All mortars approved for use in dense pack modular racks must be secured to the framework system.  
65.2.8.6.5 Only single break shells shall be fired.  
65.2.8.6.6 Dense Pack Modular Racks shall be permitted to be placed on firm ground, bridge, barge or secured to an approved trailer or barge licensed for the use of firing display shells utilizing dense pack modular racks.  
65.2.8.6.7 Dense Pack Modular Racks placed on the ground or on a barge, not part of an approved trailer or barge system shall be placed in rows of racks separated by twice the diameter of the largest mortar within the rack.  
65.2.8.6.8 Parallel rows of racks shall be separated by a minimum distance not less than 24 inches.

65.3.4. Add  
65.3.4 The use of pyrotechnic special effects indoors is prohibited in nightclubs, discotheques, dance halls, bars, or similar occupancies (defined as A-2 or A-3 by the Building Code).

65.3.5. Add  
65.3.5 The use of pyrotechnic special effects indoor in entertainment venues (defined as A-3 by the Building Code) and theatres (defined as A-1 by the Building Code) shall be permitted provided the facility is protected throughout with automatic sprinklers.
65.3.6. Add
65.3.6 Approval of the use of pyrotechnic special effects shall be subject to such terms and conditions as the Head of the Fire Department may require.

65.3.7. Add
65.3.7 No bombs, salutes, roman candles, skyrockets, firecrackers, torpedoes, or similar pyrotechnic shall be used before a proximate audience unless specifically approved in writing by the State Fire Marshal.

65.3.8. Add
65.3.8 The theatre, auditorium, or similar facility shall certify that the proscenium protection is in compliance with the Building Code.
65.3.9. Add
65.3.9 Electrical firing panels shall comply with 65.2.12 and 65.2.13. A performer shall not be required to comply with 65.2.12, if firing a single special effect.

65.4.1.1. Add
65.4.1.1 The use of flame effects indoors is prohibited in nightclubs, discotheques, dance halls, bars, or similar occupancies. The use of flame effects indoors, in entertainment venues (defined as A-3 by the Building Code) and theatres (defined as A-1 by the Building Code), shall be permitted provided the facility is protected throughout with automatic sprinklers.

65.5.1. Replace with the following:
65.5.1 The manufacture, transportation, or storage of fireworks shall comply with NFPA 1124 Chapters 1-5 and Chapters 8. Chapters 6 and 7 Delete

65.5.1.2. Add
65.5.1.2 Permits. Permits, where required, shall comply with Section 1.12.

65.5.1.3. Add
65.5.1.3 No person shall manufacture fireworks except in accordance with this Code. The manufacture of any fireworks, as defined in this Code, shall be prohibited unless it is authorized by federal license or permit, and a license issued by the local licensing authority and a permit issued by the State Fire Marshal.

65.6.1. Add
65.6.1 Permit. Permits, where required, shall comply with Section 1.12.

65.7.2. Delete
65.9.1. Replace with the following:
65.9.1 The manufacture, transportation, storage, sale, and use of explosive materials shall comply with NFPA 495, Explosive Materials Code, including appendix A, C, D and E, and NFPA 498, Standard for Safe Havens and Interchange Lots for Vehicles Transporting Explosives.

65.9.1.1. Add
65.9.1.1 All magazines containing explosive materials shall be opened and inspected at maximum intervals of 7 days to determine whether there has been unauthorized or attempted entry into the magazines or whether there has been unauthorized removal of the magazines or their contents.

65.9.1.2. Add
65.9.1.2 Terms. As used in Chapter 65, the enclosed terms shall have the following meaning assigned to them.

65.9.1.2.1 through 65.9.1.2.2. Add
65.9.1.2.1 Blasting Mat. A mat of woven steel wire, rope, scrap tires, or other suitable material, earth fill or construction to cover blast holes, for the purpose of preventing flyrock.
65.9.1.2.2 Blasting Operation. Any person engaged in the conduct of blasting under the terms of a contract or otherwise.

65.9.1.2.3 through 65.9.1.2.3.2. Add
65.9.1.2.3 Special Industrial Explosives Device. Shaped materials, sheet forms, and various other extrusions, pellets, and packages of high explosives used for high-energy-rate forming, expanding, and shaping in metal fabrication and for dismemberments and reduction of scrap metal.
65.9.1.2.3.1 The high explosives used include dynamite, trinitrotoluene (TNT), PETN, and cyclotrimethylenetetranitramine (RDX).
65.9.1.2.3.2 Special industrial explosive material shall also include explosive materials used exclusively for research and development, including but not limited to explosive detection and explosive safety.
65.9.4 through 65.9.4.1(8). Add

65.9.4 Storage of Explosives on Water.

65.9.4.1 No person shall store any explosives on the waters of the Commonwealth unless a permit for such storage has been secured from the State Fire Marshal, and unless the explosives are stored in accordance with the following requirements:

1. Such explosives shall be stored in a magazine located on a boat or vessel used exclusively for the purpose, and such boat or vessel shall be securely moored or anchored according to the direction of the harbor master. The storage magazines shall be subject to the requirements of Chapter 65;

2. No detonators shall be stored or transported on a boat or vessel on which any explosives are kept or stored, except in accordance with the applicable provisions of Chapter 65;

3. No explosives shall be delivered or removed from a boat or vessel during foggy weather;

4. In the loading or unloading of any explosive, care shall be taken in the handling of same and it shall be so placed or stowed as to prevent displacement during transit;

5. No explosives shall be carried or transported on the waters of the Commonwealth on any vessel which is carrying passengers;

6. Any vessel containing explosives in transit on any of the waters of the Commonwealth shall display on a suitable staff an international Code Flag B (a red flag) readily discernible from a distance of not less than 1,000 feet by day and which shall be properly illuminated at night;

7. No smoking shall be allowed on any vessel containing explosives;

8. All such boats and vessels shall display the word "EXPLOSIVES" in a conspicuous manner so that it shall be permitted to be seen by day from all sides at a distance of not less than 200 feet, and shall be properly illuminated at night.
65.9.5 through 65.9.5.5.1. Add
65.9.5 Magazines. The requirements of 65.9 shall be in addition to applicable U.S. Department of Transportation (U.S. Coast Guard) Regulations, 33 CFR 126, and 46 CFR 194.
65.9.5.1 Magazine Alteration. No alteration changing the constructed storage capacity of a magazine shall be made without notifying the State Fire Marshal and the Head of the Fire Department in writing and then receiving written acknowledgment of receipt of the notification from the State Fire Marshal and the Head of the Fire Department.
65.9.5.2 Equivalent Alternate Construction Standards. Alternate storage facilities for explosive materials shall be permitted to be approved by the State Fire Marshal when it is shown that such alternate facilities are or will be constructed in a manner substantially equivalent to the standards of construction contained in Chapter 65 and such construction has been approved in accordance with 27 CFR 201(b).
65.9.5.3 Magazines shall be sequentially numbered by a minimum of two inch block numbers plainly visible on the outside.
65.9.5.3.1 This number shall correspond to those drawn on a storage facility site diagram, drawn to scale, clearly indicating the separation distances between magazines, inhabited buildings, railways, highways, and other magazines.
65.9.5.4 The owner shall plainly post on the interior side of the magazine door the current Table of Distance storage capacity.
65.9.5.5 Each magazine shall at all times be under the control of a competent person.
65.9.5.5.1 This shall mean that any penetration of the magazine or magazine area shall be protected by the continuous surveillance of an individual or by an electronic sensing device which shall upon such penetration notify either the police or fire department, as the Head of the Fire Department may direct.

65.9.6 through 65.9.6.5.1. Add
65.9.6 Operational Procedure Manual for Storage of Explosives. A Magazine Facility Operational Procedure Manual shall be maintained on the storage facility which shall include the following:
(1) facility emergency policy and procedures,
(2) administrative and emergency notification procedures,
(3) scaled plot plan of the storage facility site,
(4) showing magazines, inhabited buildings railways and highways within 2,000 feet of the closest magazine, Explosive Material Manufacturers Safety Data Sheets (MSDS) for all explosive materials and SARA Title III Hazardous Materials on the site.
65.9.6.1 This manual shall be kept current and a copy provided upon request to the Head of the Fire Department and the State Fire Marshal or their designees.
65.9.6.2 A magazine facility containing 10,000 or less pounds of explosive materials shall be exempt from this requirement.

65.9.6.3 Delivery of explosives shall only be made to persons displaying proper permits and licenses and shall be delivered into magazines or temporary storage or handling areas as authorized by this Code.

65.9.6.4 No person shall deliver explosive materials to any magazine, building or structure that is not permitted by the State Fire Marshal.

65.9.6.5 Any person who delivers explosive materials shall keep a record of the delivery transaction.

65.9.6.5.1 The record shall contain the permit number assigned by the State Fire Marshal to the magazine, building or structure where said materials are to be stored.

65.9.7. Add
65.9.7. Explosives shall be transported in accordance with 29CFR 1926.903.

65.9.8 through 65.9.8.4.3 Add
65.9.8 Blast Analysis. Before conducting a blast, the blaster shall conduct a blast analysis of the overall factors affecting the blasting operations. This analysis shall consider:
(1) adjacent area structure(s), building(s), building foundations, utilities, including gas and water supply lines, septic systems and swimming pools,
(2) area geology within 250 ft (76.2m) of the center of the blast site,
(3) the identification of commercial equipment such as computers, electron microscopes, laser equipment, relays etc., which are sensitive to vibrations,
(4) other underground objects that might be damaged by the effects of a blast.

65.9.8.1 A blast analysis shall be compared to the blast design plan to establish a sound relationship between the blast design and the effects of blasting upon the neighborhood within the blast area.

65.9.8.1.1 The blast analysis shall contain a discussion of plan factors to be used which protect the public and meet the applicable airblast, flyrock, and ground vibration standards.

65.9.8.2 The area of the blast analysis shall be within 250 ft (76.2m) from the closest borehole.

65.9.8.3 Blast Plan. When blasting is done in a congested area or within 250 ft (76.2m) of a building, structure, railway, or highway, or any other installation that may be affected, precautions shall be taken by the blaster in the design of the blast plan to prevent damage and to minimize adverse effects including ground vibrations, air overpressure and flyrock.

65.9.8.3.1 Such precautions shall include but not be limited to, review of each shot variable or dimension to ensure a blast design plan which establishes sound relationships between current industry standards and the allowable limits of the effects of blasting.

65.9.8.3.2 A blast design plan shall describe as a minimum, the amount of material to be removed, benches and lifts, sketches of proposed drill patterns, spacings, free face, borehole size, depth, and angle, stemming, decking, weight of explosive material per delay, delay periods, initiation techniques, the amount of explosive material to be used, critical dimensions, location
and descriptions of building(s) and structure(s) to be protected, their number, and the placement of seismographs.

65.9.8.3.3 All shots shall be designed using the most current industry standards, to prevent excessive air overpressure, ground vibration, and flyrock.

65.9.8.4 Blasting Precautions. Blasting mats shall be required if the material to be blasted lies within 100 feet of a highway, an inhabited building or structure not under the control of the project.

65.9.8.4.1 A blaster authorized to prepare explosive charges or to conduct blasting operations shall use every reasonable precaution, including but not limited to warning signals, flags, barricades, or other equally effective means to ensure the safety of the general public and workers.

65.9.8.4.1.1 A code of blasting signals shall be posted on one or more conspicuous places at the operation.

65.9.8.4.1.2 All employees shall be required to familiarize themselves with the blasting signal code. The code shall be:

(1) WARNING SIGNAL: Three long blasts five minutes prior to blast signal.
(2) BLAST SIGNAL: Two blasts one minute prior to the shot.
(3) ALL CLEAR SIGNAL: A prolonged blast following the inspection of the blast area.

65.9.8.4.2 Blast signals shall be clearly audible for a distance of 250 ft (76.2m) of the blast site.

65.9.8.4.3 No person shall fire a blast in any blasting operation on Sunday or between the hours of sunset and sunrise unless otherwise authorized in writing by the State Fire Marshal or the Head of the Fire Department, but in any case the authority of the State Fire Marshal shall prevail.

65.9.10. Add

65.9.10 No blast shall be fired without a positive signal from the blaster-in-charge and only the blaster-in-charge shall fire the blast.

65.9.12. through 65.9.12.2. Add

65.9.12 Whenever quarry blasting is conducted within 500 ft (152.4m) of building(s) used for human habitation a series of durable warning signs shall be erected along the entire perimeter of any rock face more than six feet high.

65.9.12.1 They shall be spaced not more than 75 (22.86m) ft apart and set back a reasonable distance from the face.

65.9.12.2 Each sign shall contain the words "WARNING BLASTING AREA DANGER" in letters at least two inches in height. (See Massachusetts General Law M.G.L. c. 149 § 7 Acts of 2014 An Act Relative to Natural Gas Leaks.)

65.9.13. Add

65.9.13 Alternative Allowable Vibration Levels. Alternative limits of the effect of blasting shall permitted to be adopted for quarry operations located adjacent to inner city areas as a local
municipal regulation adopted in accordance with Massachusetts General Law (M.G.L.) c. 148, § 9.

65.9.14 through 65.9.14.4.5. Add

65.9.14 Blaster’s Log.
65.9.14.1 A blaster who performs blasting operations shall maintain a blaster’s log on a form approved by the State Fire Marshal recording each blast.
65.9.14.1.1 The blaster’s log shall be completed within six hours of a blast and retained for a minimum of three years from the date of the blast.
65.9.14.1.2 Blaster’s logs shall be made readily available to the State Fire Marshal, the Head of the Fire Department or their designees.
65.9.14.1.3 The blaster’s log shall contain:
(1) Name, signature, and Certificate of Competency Number of the blaster in charge
(2) Blast location, address, city, description
(3) Date and time of blast
(4) Type of material blasted
(5) Distance, in feet, to the nearest inhabited building or structure, neither owned or leased by holder or holder client of the Explosives User Certificate
(6) Scaled distance or alternative option used to determine blast design
(7) Type of matting or cover over blast if applicable
(8) Weather conditions, including temperature, cloud cover, wind direction
(9) Blast plan and sketch showing blast hole diameter, delay, delay pattern and types of detonators, spacing, depth of blast hole, hole pattern, and number of holes
(10) Explosive material type, size, total weights of each explosive by hole
(11) Type of initiation system (methods of firing and type of circuit)
(12) Feet of over burden, depth, and type of stemming
(13) Maximum charge per delay
(14) The seismograph(s) location(s), including distance and direction from the seismograph to the closest borehole, and from the seismograph to the closest structure
(15) Seismograph readings, including peak particle velocity, frequency, and airblast
(16) Type of seismograph, instrument make, model serial number, calibration date, and sensitivity settings
(17) Name of person taking the seismograph reading. The name and firm analyzing the seismograph record if applicable
(18) Complaints or comments following the blast.

65.9.14.2 Blasts that exceed the maximum allowable peak particle velocity frequency or decibel levels established by Chapter 65 or are known by the blaster in charge to have produced flyrock,
shall be reported to the Head of the Fire Department within 24 hours and a written report shall be provided within five days.

**65.9.14.3** Seismic instruments shall be capable of reading and recording the acceptable level limits specified in this section and shall be maintained and calibrated in accordance with the instructions of the instrument manufacturer.

**65.9.14.4** **Seismograph Placement.** The seismograph shall be placed at the nearest inhabited building or structure adjacent to the blast area that is not owned, leased, or controlled by the blasting operation.

**65.9.14.4.1** The seismograph shall also be placed on or in the ground on the side of the structure directly facing the blast site and shall be placed within ten feet of the structure or less than 10% of the distance from the blast, whichever is less.

**65.9.14.4.2** If there is no suitable location for seismograph placement within ten feet of the structure that is mutually agreed upon by the blaster and the Head of the Fire Department or his designee, the condition which made it unsuitable to place to seismograph within ten feet of the structure and the alternative location agreed upon by the Head of the Fire Department or his designee shall be noted, in writing, in the blast plan.

**65.9.14.4.3** If the person in control of said nearest structure refuses to grant permission for seismograph placement as required by this Code the Head of the Fire Department shall be immediately notified.

**65.9.14.4.3.1** Such refusal shall be further documented in writing by the blaster and be placed in the blasting record.

**65.9.14.4.3.2** Placement of the seismograph shall then be at a location mutually agreed upon by the blaster and the Head of the Fire Department or his designee.

**65.9.14.4.4** In the case of underground pipelines, bridges, roadways, steel construction, and other heavy construction, where prescribed vibration or airblast levels would be overly restrictive in relation to the nature of the project, vibrations and airblast levels in excess of the tables listed above shall be allowable when authorized in writing by the owner or representative of the owner of adjacent inhabited building(s) or structure(s) within the blast area.

**65.9.14.4.5** Seismograph monitoring shall be required for all blasting operations.

**65.9.15** through **65.9.15.13.2.** Add

**65.9.15 Pre-blast Inspection Surveys.**

**65.9.15.1** The intent of a pre-blast survey is to provide documentation of the existing physical condition of buildings and structures within the blasting area with the dimensions of each observed defect clearly noted.

**65.9.15.1.1** When blasting within 250 ft (76.2m) of a structure, as measured from the closest borehole to the structure, or structures, not owned or controlled by the project, a pre-blast inspection survey shall be offered.

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This document is provided for the convenience of the reader and should not be relied upon for research purposes or a substitute for the official document that is only available at the Massachusetts Secretary of State Office.
65.9.15.1.2 It shall be the responsibility of the blaster to notify structure owners of the survey.
65.9.15.1.3 Surveys in excess of the above shall be permitted to be conducted at the discretion of the blaster.
65.9.15.1.4 If the owner or occupant request surveys in excess of the above, the cost of the survey(s) shall be paid by the owner or occupant of the structure.
65.9.15.1.5 The pre-blast survey shall document the existing visual conditions of the interior and exterior of the structure including improvements to the property and other physical factors that could reasonably be affected by the blasting.
65.9.15.1.6 Structures such as pipelines, cables, transmission lines, cisterns, wells, and other water systems warrant special attention; however the assessment of these structures shall be permitted to be limited to surface conditions and other readily available data.
65.9.15.1.7 The survey shall accurately record deficiencies by means of written notes, sketches, photographs, video tape, cassette tape narrative, or any other format or combination that sufficiently depicts the pre-existing conditions prior to the blasting.
65.9.15.1.8 If the owner refuses the survey the inspector shall request that he sign a waiver of the survey.
65.9.15.1.9 A pre-blast survey waiver shall be made on a form approved by the State Fire Marshal.
65.9.15.1.10 If the owner or occupant refuses to sign a waiver, the inspector shall sign the waiver attesting to the refusal.
65.9.15.1.11 Three attempts shall be made to contact the owner to offer the survey.
65.9.15.1.11.1 If no response is made after the second attempt, or the owner refuses to sign a survey waiver, a notice offering the survey shall be sent via any carrier capable of providing a receipt of delivery.
65.9.15.1.11.2 A receipt of delivery shall satisfy this requirement.
65.9.15.1.12 Surveys shall be conducted by technicians familiar with construction methods and materials, familiar with blasting procedures, and this Code.
65.9.15.1.13 When a blast inspection is made, the results of that inspection shall be permitted to only be made available to the Head of the Fire Department, the State Fire Marshal or their designees upon request with the written consent of the occupant of the structure.
65.9.15.1.13.1 The blast inspection shall be made available to the owner of the inspected property within a reasonable time after request is made in writing.
65.9.15.1.13.2 Failure to provide a blast inspection report within 30 days of such request shall be grounds for revocation of a Use and Handling Permit.

65.9.16. Add
65.9.16 Underwater blasting shall be conducted in accordance with 29 CFR 1926.912.

65.9.17 through 65.9.17(5). Add
65.9.17 Charge Activated Device. The use of charge activated devices shall comply with the following:

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(1) Use and Handling Permits shall be obtained as required in Section 1.12.
(2) The charge activated device shall be exempt from the following, blast analysis and the use of a seismograph. However, the blast design plan is required.
(3) A blaster’s log shall be maintained.
(4) Matting of sufficient size and strength shall be utilized during all detonations.
(5) All holes must be drilled to the manufacturer’s specifications and no hole shall be re-drilled.

65.9.18 through 65.9.18.5. Add
65.9.18 Blasting Regulatory Review.
65.9.18.1 Any person or firm alleging damage as a result of blasting operations shall make a complaint on a "Blasting Regulatory Review" form approved by the State Fire Marshal and obtained from the fire department of the city or town where damage occurred.
65.9.18.1.1 The Blasting Regulatory Review Form shall contain a signed certification.
65.9.18.1.2 Completed forms shall be returned within 30 days of the blasting incident to the Head of the Fire Department.
65.9.18.2 The Head of the Fire Department upon receiving a Blasting Regulatory Review Form shall cause the holder of the "Explosives Users Certificate" and the blaster in charge, to report to the fire department with copies of pertinent blasters’ logs for the dates in question and to provide copies of the blaster’s log for the dates alleged.
65.9.18.2.1 The blaster in charge shall be interviewed and blast logs examined to determine any violations of this Code.
65.9.18.2.2 The fire department authority shall record the results of his inquiry on the Blasting Regulatory Review Form.
65.9.18.3 The Head of the Fire Department shall retain the original of the Blasting Regulatory Review Form and forward a copy to the State Fire Marshal's Office.
65.9.18.4 The holder of the Explosives Users Certificate shall receive a copy of the complaint form and acknowledge receipt by signature and date in the space provided on the complaint form.
65.9.18.5 The holder of the Explosives Users Certificate or the holder’s insurance carrier shall respond to the claimant within 30 days after the date that the holder received the complaint form.

65.9.19 through 65.9.19.1.2.3. Add
65.9.19 Manufacture of Explosive.
65.9.19.1 General
65.9.19.1.2 A manufacturer of explosives shall mean any person licensed in accordance with 27 CFR Part 55, and engaged in the business of manufacturing explosives for the purpose of sale or distribution.
65.9.19.1.2.1 A federal manufacturer license is required when a binary system is used and the components are mixed in the course of a trade or business to create an explosive material.
65.9.19.1.2.2 In the case of binary systems, the supplier of pre-weighted or pre-measured ingredients, not the person mixing the ingredients, is considered the manufacturer of any pyrotechnic materials created from binary components.
65.9.19.1.2.3 The person loading binary materials into devices supplied by the manufacturer of binary systems shall not be considered a manufacturer when such loading is performed according to the instructions of the manufacturer.

65.9.19.2 through 65.9.19.2.4. Add
65.9.19.2 Explosives Manufactories
65.9.19.2.1 All explosives manufactories shall be supplied with some means of direct communication with the Head of the Fire Department, such as radio, telephone or fire alarm boxes, for immediate notice in case of fire.
65.9.19.2.2 There shall be a competent watchman on guard at all explosive manufactories except when the same are in actual operation.
65.9.19.2.3 No dry vegetation or combustible rubbish shall be allowed to accumulate within 50 feet of any building connected with such manufactories.
65.9.19.2.4 Persons under the age of 18 years shall not be employed in an explosive manufactory and shall not be permitted to enter such manufactory unless accompanied at all times by a responsible adult person.

65.9.20 through 65.9.20.2.4. Add
65.9.20 Explosives Transaction Records.
65.9.20.1 All persons keeping, storing, using, selling, manufacturing, handling, or transporting explosive material shall maintain records so that the quantity and location of such explosive materials are readily available for inspection by the Head of the Fire Department, the State Fire Marshal, their designees, or a police officer.
65.9.20.1.1 Quantity and location records shall be delivered to the State Fire Marshal forthwith upon demand.
65.9.20.2 Daily Summary of Magazine Transactions:
65.9.20.2.1 In taking the inventory required by Chapter 65, a licensee or permittee shall enter the inventory in a record of daily transactions which shall be kept for each magazine on a storage facility.
65.9.20.2.2 These records shall be permitted to be kept at one central location on the business premises if separate records of daily transactions are kept for each magazine.
65.9.20.2.3 Not later than the close of the next business day, each licensee or permittee shall record by the manufacturer’s name or brand name, the total quantity received in and removed
from each magazine during the day, and the total quantity remaining on hand at the end of the day.

65.9.20.2.4 Any discrepancy which might indicate a theft or loss of explosive materials shall be reported to the State Fire Marshal immediately.

65.9.21 through 65.9.27.1. Add

65.9.21 Discontinuance of Business. Where an explosive materials business or operation is discontinued or succeeded by a new licensee or registrant, the records prescribed by Chapter 65 shall appropriately reflect such facts and shall be delivered to the successor.

65.9.21.1 Where discontinuance of the business or operation is absolute, copies of the records required shall be delivered to the State Fire Marshal within 30 days following the business or operation discontinuance.

65.9.22 Any person who transports or delivers explosive materials to any magazine, building or structure shall keep a record of the permit number assigned to said magazine, building, or structure by the State Fire Marshal in accordance with Chapter 65.

65.9.23 Theft. The loss or theft of any explosives shall be immediately reported to the State Fire Marshal and confirmed in writing within 24 hours.

65.9.24 The State Fire Marshal or his designee shall be permitted, in his discretion, upon discovering a violation of this Code or upon determination of a fire or explosion hazard, require the removal of any explosive material or that a watchman be placed continuously in charge of it.

65.9.24.1 The expense of said removal or watchman shall be the responsibility of the person in whose possession the explosive material is found.

65.9.25 Any explosion, fire, or collision occurring in connection with the keeping, storage, manufacture, sale, transportation or use of explosive material causing loss of life or injury to any person or damage to property shall be reported immediately to the State Fire Marshal and the Head of the Fire Department, giving an account of the same, and then confirmed giving a detailed account in writing within 24 hours.

65.9.26 Any person, firm, or corporation in the Commonwealth who keeps, uses, sells, transports, or stores any explosive shall keep a record of the disposition of such explosive by recording the batch number, if any, from the case from which individual explosive has been removed, if sold in less than case lots, or the number of cases with their batch numbers if sold in case lots.
65.9.26.1 The person to whom such explosive has been transferred shall record the transaction and such records shall be maintained for ready inspection by the State Fire Marshal, the Head of the Fire Department, or the Head of the Police Department, or their designees, for a period of three years.

65.9.27 Laboratories: industrial laboratories, laboratories of technical institutes, colleges, universities, and similar institutions shall be permitted to keep, store, and use explosives or blasting agents when confined to the purpose of scientific or technical instruction or research, provided the storage and use of explosives or blasting agents is conducted or supervised by a person holding a Certificate of Competency and not more than 50 lbs of explosive are kept on hand at any time in such laboratories.

65.9.27.1 Such Certificate of Competency can be issued by the State Fire Marshal without testing, providing a curriculum virgae is provided.

65.10. Add

65.10 The possession and use of consumer fireworks is prohibited in the Commonwealth unless part of a display firework show in accordance with 65.2 or part of a Pyrotechnics Before a Proximate Audience in conformance with 65.3.

65.11 through 65.11.2. Add

65.11 Cannon or Mortar Firing.

65.11.1 The firing of muzzle-loading cannons during patriotic celebrations and reenactments, including all such cannons ranging from pre-Revolutionary War vintage to present day facsimiles shall comply with 65.11.

65.11.1.1 This Section shall not apply to any cannon exhibit in which explosives are not being used.

65.11.1.2 This Section shall not apply to the storage of ammunition for any cannon and shall be subject to all the applicable requirements in 65.9.

65.11.2 Permits. Permits, where required, shall comply with Section 1.12.

65.11.3 through 65.11.3.6. Add

65.11.3 Terms. As used in Chapter 65, the enclosed terms shall have the following meaning assigned to them.

65.11.3.1 Blank-Fire. The supervised discharge of a cannon or mortar without projectile.

65.11.3.2 Cannon. Any gun designed to be fired from a carriage resting on the ground and which is loaded from the muzzle with rigid non-combustible black powder cartridge.

65.11.3.3 Display. The supervised discharge of cannon or mortar, whether blank-fire without projectile or live-fire with projectile.

65.11.3.4 Live-Fire. The supervised discharge of cannon or mortar with projectile.
65.11.3.5 Mortar. Any cannon whose length is less than six times its bore diameter, or any cannon fired at an elevation of 45° or more from the horizontal.

65.11.3.6 Range. An area designated for the discharge of various weapons, having a minimum unobstructed length of 100 yards (99.44m) , a minimum unobstructed width of 25 yards (22.86m), equipped with a natural or manmade down range barrier a minimum of ten feet in height.

65.11.4 through 65.11.4.3 (10). Add

65.11.4 Range Conditions and Other Pre-Firing Requirements. 
65.11.4.1 A cannon be only be fired with ball, shot or projectile on ranges approved by the AHJ.
65.11.4.1.1 Such ranges shall be clear and unobstructed between discharge point and target area and for a safe distance to the rear of target in event of an overshoot.
65.11.4.1.2 The target area shall not exceed 250 yards (228.6m) from the point of discharge.
65.11.4.2 There shall be no permanent building, public highway, railroad, or other public way within the forward sector of a 180° arc having a radius of 100 ft (30.48m) from the muzzle of the cannon.
65.11.4.2.1 A similar sector of 180° directed toward the rear 75 ft (22.86m) in radius shall be clear of all public ways, permanent buildings, or other obstructions.
65.11.4.3 The firing of the cannon shall comply with the following:
(1) No cannon shall be discharged during any windstorm in which the direction and velocity of the wind renders the display dangerous to the public safety and/or surrounding property.
(2) There shall be no discharging of cannon between the hours of sunset and sunrise without prior written approval from the Head of the Fire Department.
(3) The Head of the Fire Department shall designate the location and type of fire extinguishing equipment as may be required.
(4) No firing of any cannon shall be conducted unless the crew is present in adequate numbers for the particular cannon or mortar.
(5) The competent operator shall be responsible to ensure that all members of the crew have been fully trained in the safe operation of the cannon or mortar.
(6) No member of the gun crew shall be under 18 years of age.
(7) Smoking shall be prohibited in the discharge area.
(8) No member of the audience shall be allowed in the forward or flank zone of the muzzle of a cannon firing a projectile within a forward sector of 180° having a radius of 150% of the estimated range of the piece.

(9) The audience at a supervised firing of cannon shall be restrained behind lines 60 ft (18.29m) on the flank area back of the muzzle and 60 ft (18.29m) to the rear of the gun.

(10) Unless otherwise allowed by the State Fire Marshal, no piece shall be discharged with blank ammunition, unless all spectators are at a safe distance from the front of the piece and at least 60 ft (18.29m) to the rear or flank. Adjacent pieces shall be at a safe interval.

65.11.5 through 65.11.5.1 (29). Add

65.11.5 Magazines and Powder.

65.11.5.1 All ammunition and powder shall comply with the following:

(1) All ammunition for cannon shall be transported and temporarily stored at the firing location in the finished state in a portable magazine.

(2) Such magazine shall be constructed of at least 24-gauge sheet metal lined with a minimum of ¾ inch marine plywood or other non-sparking material, and shall be of sturdy sealed construction held together with non-sparking fastenings. A suitable lock and hasp of non-sparking material shall be provided.

(3) In the discharge area, a ready-service box constructed of wood with non-sparking fastenings and cover designed to be self-closing shall be positioned at ground level approximately 25 ft (7.62m) to the rear of the piece being served with the hinges toward the piece.

(4) All magazines and ready-service boxes shall be closed prior to the loading of each cartridge of the piece being served and adjacent pieces.

(5) Ready-service boxes for each gun shall contain the minimum number of cartridges required for the gun during that particular display.

(6) Magazines and ready-service boxes shall at all times be under the control of a competent member of the gun crew.

(7) No loose or bulk powder other than priming powder in quantities not exceeding ½ ounce shall be used in the firing of any cannon, and no loose or bulk powder shall be transported or stored in any portable magazine with cartridges.

(8) Blank artillery cartridges shall be made up of black powder only, not to exceed 4 ounces per inch of largest bore diameter.
(9) Cartridges must have a minimum of three wraps of heavy-duty aluminum foil and be packed to a firm consistency.
(10) Only cannon grade, 1F, or 2Fg black powder will be used.
(11) Powder grades cannot be mixed.
(12) No artillery cartridges shall be constructed at the event site.
(13) No wadding of any kind is permitted in blank firing.
(14) The amount of black powder used in each cartridge shall be such as to not present an undue hazard to persons, property, or the piece itself.
(15) Powder cartridges for cannons shall not exceed four ounces of powder per inch of bore diameter.
(16) Powder cartridges for mortars shall not exceed four ounces of powder per inch of chamber diameter.
(17) No torch shall be used to ignite any cartridge to be fired from cannon.
(18) All cannons used to fire a projectile shall be provided with an instant source of ignition such as an electrical squib, or bridge wire or percussion cap, or other approved instant firing device. Exception to the foregoing shall apply to the use of fuses for the firing of mortars.
(19) No firing of any steel or iron cannon or mortar shall be conducted unless the weapon contains a seamless steel safety sleeve with breech plug, designed for such firing and have had a boroscope inspection conducted by a qualified person.
(20) Original guns and bronze guns shall permitted to be used without a safety sleeve, provided that they have had a boroscope inspection conducted by a qualified person. Pits, scratches, or other defects more than 3/16 inch deep shall render the cannon unusable.
(21) Cannons and mortars used for live-firing shall have a boroscope inspection conducted at least once every five years.
(22) Cannons and mortars used exclusively for blank-firing shall have a boroscope inspection conducted at least once every ten years.
(23) Projectiles shall not be so constructed as to develop any unsafe pressures; and no combustible, explosive, or pyrotechnic projectiles shall be used.
(24) Reloading shall not commence until the worming and wet sponging have been completed after firing.
(25) The piece shall be wormed and wet sponged between shots and the vent stopped from the time the worm enters the muzzle until the rammer is removed from the bore after the cartridge is rammed in blank-firing, or the projectile is rammed in live-firing.
(26) At no time shall any cannon be left unattended while loaded or during a misfire until the piece has been cleared.
(27) In the event of a misfire, the competent operator shall take the following steps:
(a) The gunner shall give an audible warning.
(b) No personnel shall approach the front of the muzzle.
(c) A mandatory three minute cooling off period shall be observed.
(d) The piece shall be re-primed from a safe position and a repeated attempt made to fire the piece.

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(e) If the attempt to re-fire the piece is unsuccessful, the piece shall be flooded with water through the vent and allowed to soak for a period of at least one hour unless the water or compressed gas can be used to flush the cartridge out of the muzzle.

(f) The projectile and/or cartridge shall be removed through the muzzle.

(28) If, after a display, the competent operator has reason to believe that there are any unignited charges or remnants thereof containing explosives in the area, he shall make a thorough search of the area for such explosives. The responsibility for disposition of it shall be assumed by the certificate holder.

(29) Any explosion, fire, or other accident occurring in connection with the keeping, storage, manufacture, handling, transportation, supervised display, or other disposition of ammunition for cannon causing loss of life or injury to any person or damage to property, shall be immediately reported to the State Fire Marshal by the competent operator, giving a detailed account of same and confirmed in writing.

Chapter 66 Flammable and Combustible Liquids

66.1.1*. Replace with the following:

66.1.1 The storage, handling, and use of flammable and combustible liquids, including waste liquids, as herein defined and classified, shall comply with this chapter; NFPA 30, Flammable and Combustible Liquids Code; Sections 60.1 through 60.4 of this Code; and NFPA 35 Standards for the Manufacture of Organic Coatings, as applicable.

66.1.4. Replace as follows:

66.1.4 Installations made in accordance with the applicable requirements of the following standards shall be deemed to be in compliance with this Code except that the maximum allowable quantities of hazardous materials are limited to the quantities listed in the Building Code and Table 60.4.2.1.1.3 of this Code:

66.4.1.1.1. Add

66.4.1.1.1 For the purposes of this classification if an accurate boiling point is unavailable for the material in question or if a mixture does not have a constant boiling point, the 20% evaporated point of a distillation performed in accordance with ASTM D 86 shall be used as the boiling point of the liquid.

66.21.4.1.6. Add

66.21.4.1.6 Pre-Fabricated Tanks and Dikes.

(1) Pre-fabricated tanks and dikes shall provide 110% containment.
If a rain shield is provided, it shall have provisions that an overfill of the tank will go directly into the dike.

66.21.5.2.1 (2). Delete

66.21.6.4.1 through 66.21.6.4.1.3.1. Add
66.21.6.4.1 Automotive Lubrication Service Centers.
66.21.6.4.1.1 Tanks shall be located in a separate room from the main work area by a 2 hour fire rated enclosure.
66.21.6.4.1.2 The storage room shall be equipped with a fixed fire suppression system designed and installed in accordance with 13.8.
66.21.6.4.1.3 The storage room shall have an area not less than 110% of the largest tank capacity plus 10% of the aggregate amount of all other tanks in that room.
66.21.6.4.1.3.1 If water is utilized for suppression the containment area shall comply with the Building Code.

66.21.7.1.5. Delete

66.21.7.4.3.1. Replace with the following:
66.21.7.4.3.1 General. Underground tanks taken out of service shall comply with 310 CMR 80.00 Underground Storage Tank Systems and be emptied of liquid and residuals, rendered vapor-free, and safeguarded against trespassing in accordance with this section and in accordance with NFPA 326 or in accordance with the requirements of the AHJ. The procedures outlined in this section shall be followed when taking underground tanks temporarily out of service, closing them in place permanently, or removing them.

66.21.7.4.3.2 through 66.21.7.4.3.2(4). Replace with the following:
66.21.7.4.3.2 Temporary Closure. Underground tanks shall comply with 310 CMR 80.00 Underground Storage Tank Systems and be rendered temporarily out of service only when it is planned that they will be returned to active service, closed in place permanently, or removed within an approved period not exceeding 5 years. The following requirements shall be met:
(1) Corrosion protection shall be maintained in operation.
(2) The vent line shall be left open and functioning.
(3) The tank shall be secured against tampering.
(4) All other lines shall be capped or plugged.
66.21.7.4.3.2.1. Replace with the following:
66.21.7.4.3.2.1 Tanks remaining temporarily out of service for more than 5 years shall be permanently closed in place or removed in accordance with 66.21.7.4.3.3 or 66.21.7.4.3.4, as applicable.
66.21.7.4.3.3. Replace with the following:
66.21.7.4.3.3 Permanent Closure in Place. Underground tanks shall be permitted to be permanently closed in place if approved by the AHJ and in accordance with 310 CMR 80.00 Underground Storage Tank Systems. All of the following requirements shall be met:

66.21.7.4.3.4 (8). Add
66.21.7.4.3.4 (8) Underground steel storage tanks used for the storage of flammable liquids shall be disposed of at a Tank Dismantling Yard approved by the State Fire Marshal.

66.21.7.5*. Delete

66.21.7.5*. Delete

66.21.7.6 through 66.21.7.8.12. Add
66.21.7.6 Application for Approval of Tank Dismantling Yards.
66.21.7.6.1 Underground steel storage tanks used for the storage of flammable liquids shall only be disposed of at tank dismantling yards approved by the State Fire Marshal
66.21.7.6.2 Application for approval of a tank dismantling yard small shall be made on a form approved by the State Fire Marshal (Form FP-295). Completed applications shall be submitted to: Department of Fire Services, Division of Fire Safety, PO Box 1025, 1 State Road, Stow, MA 01775.

66.21.7.7 Tank Dismantling Yard.
66.21.7.7.1 Each tank dismantling yard shall hold valid licenses or permits from any and all local city and town Boards, Agencies, Departments, where necessary to conduct operation for underground steel storage tank dismantling and storage.
66.21.7.7.2 Each tank dismantling yard shall comply with all the provisions of regulation and be approved by the State Fire Marshal and endorsed by the Head of the Fire Department.

66.21.7.8 Operation of Tank Dismantling Yards.
66.21.7.8.1 No person at a tank dismantling yard shall accept an underground steel storage tank that in any way would be used for reuse or resale purposes.
66.21.7.8.2 Each approved tank dismantling yard shall maintain a written ledger listing all underground steel storage tanks received, a receipt of disposition thereof and any other data required by the Marshal.
66.21.7.8.3 All underground steel storage tanks shall be pumped out dry before transported to a tank dismantling yard.

66.21.7.8.4 The vapors in an underground steel storage tank may be made inert. Solid carbon dioxide (dry ice) crushed and distributed evenly over the greatest possible area in the amount of 1.5 (lbs) pounds per 100 gallons of tank capacity may be used to inert the tank.

66.21.7.8.5 The cleaning and residue of the underground steel storage tank must be treated as a hazardous waste and removed by a licensed hazardous waste or waste oil transporter, as required by the Massachusetts Department of Environmental Protection. The hazardous waste manifest number shall be recorded on the fire department permit.

66.21.7.8.6 The underground steel storage tank shall be purged with an inert gas, such as nitrogen or carbon dioxide, while all connecting lines to the tank including the vent, shall be removed.

66.21.7.8.7 Holes or openings shall be drilled or made in the tank when received at the tank disposal yard.

66.21.7.8.8 Each tank dismantling yard shall have a device capable of measuring flammable vapors. The device shall be properly calibrated, and employees shall be trained in its use.

66.21.7.8.9 No tank dismantling yard shall accept any tank that has not been purged of product and inerted.

66.21.7.8.10 All tanks shall be stored on the secured premises of an approved dismantling yard where they can be safeguarded from the general public.

66.21.7.8.11 If a tank yard finds product in a tank, such as sludge or other contaminated waste, the material shall be treated as a hazardous waste and removed by a hazardous waste or waste oil transporter in accordance with 310 CMR: Department of Environmental Protection.

66.21.7.8.12 All underground steel storage tanks accepted at approved tank yards must be dismantled within two working days of the date of acceptance. No tanks shall be stored in excess of 72 hours without approval of the Head of the Fire Department.

66.23 through 66.23.17.2. Delete

66.28.1.1 through 66.28.1.2(2). Add

66.28.1.1 Damage Protection.

(1) Access to loading bays shall have concrete bumpers or pipe guide rails installed, so that no part of any tank vehicle entering the bay can come in contact with the loading structure or its equipment.

(2) Sufficient clearance shall be provided under top loading facilities and its related structure to allow for the highest vehicle expected to pass through the structure.

66.28.1.2 Bottom Loading Facilities.

(1) Loading couplers shall incorporate a fracture point in the coupler itself to prevent damage to the vehicle connection if vehicle is moved prior to disconnecting the loading assembly.
(2) Provisions shall be made to keep bottom loading assemblies and equipment from extending into traffic lanes when not in use.

Chapter 69 Liquefied Petroleum Gases and Liquefied Natural Gases

69.1.1.1. Replace with the following:
69.1.1.1 The storage, use, and handling of liquefied petroleum gases (LP-Gas) upstream from the outlet of the first stage regulator shall comply with the requirements of this chapter; NFPA 58, *Liquefied Petroleum Gas Code*; and Sections 60.1 through 60.4 of this Code.

69.1.1.4. Add
69.1.1.4 Certificates. Certificates of completion, where required, shall comply with Section 1.12.8.51 and Section 1.13 as applicable.

69.1.3 through 69.1.3.1. Add
69.1.3 Terms. As used in Chapter 69, the enclosed terms shall have the following meaning assigned to them.

69.1.3.1. Add
69.1.3.1 Abandoned. Any container, which has not been used either for filling or draw off of LP-gas, for a continuous period in excess of 12 months.

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69.1.4. Add
69.1.4 LP-Container, Filling, Shipment, Odorization, and Testing Requirements.
If odorization is required, as provided in NFPA 58 Section 4.2.1, one of the testing thresholds required in Section 69.1.4.2 (2) shall be completed and documented. The presence of the odorant shall be permitted thereafter by sniff testing each time the propane changes in the distribution network. If the amount of odorant in the propane is questionable by sniff testing or the records are not accepted by or made available to the AHJ as required in Section 69.1.4.3.1, the testing as prescribed in accordance with the Section 69.1.4.2 (2) shall be repeated. If necessary, thresholds shall be met by adding additional odorant to obtain proper odorized propane levels as prescribed in Sections 69.1.4.2 (1) or 69.1.4.2 (2). In such situations where the propane odorant is questionable, immediate verbal notification shall be given to the AHJ, which shall be followed by written notification within 24 hours documenting the date, time, and location of discovery and status of such event.

69.1.4.1. Add
69.1.4.1 Railcar Shipments. Each railcar shipment of LP-gas intended for distribution within Massachusetts shall comply with the provisions in Section 69.1.4.2 (1). Each railcar shipment delivered for distribution shall be tested for odorization using one of the tests prescribed in Section 69.1.4.2 (2) and sub-sections (a)(b)(c).

69.1.4.2 through 69.1.4.2(4(c)). Add
69.1.4.2 Odorization Thresholds, Testing and Filling of Containers:
(1) If ethyl mercaptan is used for odorization purposes, it shall be injected at a minimum rate of 1 lb per 10,000 gallons of propane.
(2) For testing purposes one of the following tests listed below in (a), (b) or (c) shall be required to determine adequate ethyl mercaptan odorant levels equivalent to 1 lb per 10,000 gallons of propane.
   (a) Vapor Test using stain tubes resulting in a minimum of 5 ppm of ethyl mercaptan utilizing ASTM D 5305
   (b) Flash Vapor Test using stain tubes resulting in a minimum of 17 ppm of ethyl mercaptan utilizing ASTM D 5305
   (c) Liquid Test for analysis of volatile sulfurs using gas chromatography resulting in a minimum of 17 ppm of ethyl mercaptan utilizing ASTM D1265.
(3) Newly filled tanks and containers shall be purged according to manufacturer’s instructions.
(4) Newly installed tanks greater than 125 gallons shall comply with the following:
   (a) Within two business days of the tank installation approval by the AHJ, such tank shall be filled with LP-gas and;
(b) If the tank is not placed into service within 30 days of the tank installation approval date, such tank shall be tested by the LP-gas company in accordance with 69.1.4.2 (2), prior to being placed into service and;

(c) Maintain records in accordance with 69.1.4.3 and report findings, if applicable, in accordance with 69.1.4.

69.1.4.3. Add
69.1.4.3 Records. Records of all testing required by this Code shall be maintained. The results shall be kept by both the shipper and user for a minimum of 3 years from the date of delivery.

69.1.4.3.1 Add
69.1.4.3.1 Test results shall be made available to the AHJ upon request.

69.1.4.4. through 69.1.4.4.3. Add
69.1.4.4 Effective September 1, 2014, each person handling LP-gas in the quantities of 42 lbs (ten gallons) or greater, shall be trained, at applicable level, in accordance with the Certified Employee Training Program (CETP) or other education programs acceptable to the State Fire Marshal.
69.1.4.4.1 Each person handling cylinders less than 42 lbs shall receive annual training utilizing the program "Dispensing Propane Safely" published by the Propane Education and Research Council.
69.1.4.4.2 Certificates of completion shall be maintained by the employer for three years and a copy of said certificate shall be given to the trainee at the completion of each program.
69.1.4.4.3 Certificates of completion shall include the date of completion, the course name, and be signed by the instructor or provider. Such certificates shall be submitted to the AHJ upon request.

69.1.4.5 through 69.1.4.6.1. Add
69.1.4.5 Field Equipment Identification. All LP-gas installations of 125 gallons or greater shall be provided with a sign identifying the responsible party for the installation and maintenance of the LP-gas installation.

69.1.4.5.1 The sign shall be installed in a plainly visible location.

69.1.4.5.2 Such sign shall include the name and telephone number of the LP-gas supplier, plant installer, owner, or operator.

69.1.4.6 Emergency and Reporting Procedure. In situations where a gas leak results in imminent danger, immediate verbal notification shall be given to the 911 dispatch center.

69.1.4.6.1 The AHJ shall receive written notification within 24 hours of said notification documenting the date, time, and location of discovery, status, and remediation of such event.

69.1.4.6.2 Add
69.1.4.6.2 In situations where the AHJ has directed an LP-gas provider to take corrective action, the provider shall immediately respond verbally to the AHJ, as directed, such provider’s response shall be followed by written notification, if requested, within 24 hours after resolution, documenting the date, time, and the location of discovery and status of the LP-gas installation.

69.3.3.4.4. Replace with the following:
69.3.3.4.4 The distance measured with a three foot arc from the point of discharge of a container pressure relief valve to any building opening below the level of such discharge shall be in accordance with Table 69.3.3.4.3. [58:6.3. 4.4]

69.3.12.6.3. Add
69.3.12.6.3 The owner of the storage equipment shall be responsible for the installation of the LP-gas facility and for maintaining it in a safe operating condition.

69.3.12.6.4. Add
69.3.12.6.4 No person shall install, remove, connect, disconnect, fill or refill any LP-gas container without permission of the owner of the container.

69.3.12.6.5. Add
69.3.12.6.5 Only a trained individual complying with Section 69.1.4.4 shall install, remove, connect, disconnect, sell, fill, refill, deliver or permit to be delivered, or operate any LP-gas system utilizing containers of over 42 lbs (ten gallons) product capacity.

69.3.12.6.6 through 69.3.12.6.6 (3). Add
69.3.12.6.6 The State Fire Marshal shall be permitted to order the user of a system in writing to meet requirements:
(1) Where unusual conditions exist;
(2) When it is necessary for the protection of life and property;
(3) Provided the requirements are within the intent and purpose of this Code.

69.3.13.4.4. Add
69.3.13.4.4 "NO SMOKING" and "STOP ENGINE WHEN REFUELING" signs shall be displayed on the front and rear of each dispenser at the filling station. The signs shall have block letters at least one inch high with either red letters on a white background or white letters on a red background.

69.5.2.1.6. Add
69.5.2.1.6 Areas used for the storage of containers or cylinders awaiting use or resale shall post a readily accessible and clearly visible warning sign stating "NO SMOKING" and "FLAMMABLE GAS" or otherwise indicate the contents of such containers or cylinders, such as "FLAMMABLE GAS PROPANE" or "FLAMMABLE GAS BUTANE".