

1 **ORDINANCE NO. 70800**

2

3 **BOARD BILL 59**

4

**INTRODUCED BY ALDERMAN TERRY KENNEDY
ALDERWOMAN CHRISTINE INGRASSIA**

5 An Ordinance pertaining to the Mechanical Code of the City of Saint Louis; repealing
6 Ordinance 68639 and Ordinance 68847; adopting the 2018 International Mechanical Code
7 with amendments, including Appendix A; and containing a penalty clause, severability
8 clause, savings clause, and an emergency clause.

9 **BE IT ORDAINED BY THE CITY OF SAINT LOUIS AS FOLLOWS:**

10 **SECTION ONE. REPEAL.** Ordinance 68639, approved April 21, 2010;
11 Ordinance 68847, approved February 2, 2011, pertaining to the 2009 International
12 Mechanical Code; and Section 112 of the Plumbing Code as adopted under Ordinance
13 69255, pertaining to the licensing of sprinkler fitters, are hereby repealed.

14 **SECTION TWO. ADOPTION.** The 2018 International Mechanical Code as
15 published by the International Code Council, Inc., one copy of which is on file in the Office
16 of the Register of the City of Saint Louis, being marked and designated as the International
17 Mechanical Code, including Appendix A, is hereby adopted as the Mechanical Code of the
18 City of Saint Louis, in the State of Missouri, pursuant to this Ordinance and in conformity
19 with Section 71.943 RSMo, for the governing of the design, installation, construction, and
20 maintenance of mechanical systems by providing reasonable safeguards to protect the public
21 health and safety against the hazards of inadequate, defective, or unsafe mechanical systems

1 and installations as herein provided; and that each and all of the regulations, provisions,
2 penalties, conditions, and terms of said Mechanical Code are hereby referred to, adopted, and
3 made a part hereto as if fully set out in this Ordinance with the amendments prescribed in
4 Section Three of this Ordinance. If differences occur between a provision modified by this
5 Ordinance and a provision adopted without modification, then the modified provision shall
6 control.

7 **SECTION THREE. AMENDMENTS.** The 2018 International Mechanical
8 Code is amended and changed in the following respects:

9 **CHAPTER 1 IS AMENDED AS FOLLOWS:**

10 Delete Chapter 1 as published in its entirety.

11 Add new Chapter 1 to read as follows:

12 **CHAPTER 1**
13 **ADMINISTRATION**

14 **SECTION 101**

15 **GENERAL**

16 **101.1 Title.** These regulations shall be known as the Mechanical Code of the City of Saint
17 Louis, hereinafter referred to as “this code.”

18 **101.2 Scope.** This code shall regulate the design, installation, maintenance, alteration,

1 relocation, and inspection of mechanical systems that are installed and utilized to provide
2 control of environmental conditions and related processes within buildings. This code shall
3 also regulate those mechanical systems, system components, equipment, and appliances
4 specifically addressed herein. The installation of fuel gas distribution piping and equipment,
5 fuel gas-fired appliances, and fuel gas-fired appliance venting systems shall be regulated by
6 the Fuel Gas Code.

7 **101.2.1 Appendices.** Provisions in the appendices shall not apply unless specifically
8 adopted. Appendix A is hereby adopted for use by the City of Saint Louis.

9 **101.3 Intent.** The purpose of this code is to provide minimum standards to safeguard life
10 and limb, health, property, and public welfare by regulating and controlling the design,
11 construction, installation, quality of materials, location, operation, and maintenance or use of
12 mechanical systems. This code shall be construed to secure its expressed intent, which is to
13 insure public health, safety, and welfare insofar as they are affected by the installation and
14 maintenance of mechanical systems.

15 **101.4 Severability.** If a section, subsection, sentence, clause, or phrase of this code is for
16 any reason held to be unconstitutional, such decision shall not affect the validity of the
17 remaining portions of this code.

1 **SECTION 102**

2 **APPLICABILITY**

3 **102.1 General.** Where there is a conflict between a general requirement and a specific
4 requirement, the specific requirement shall govern. Where, in a specific case, different
5 sections of this code specify different materials, methods of construction, or other
6 requirements, the most restrictive shall govern.

7 **102.2 Existing installations.** Except as otherwise provided for in this chapter, a provision in
8 this code shall not require the removal, alteration, or abandonment of nor prevent the
9 continued utilization and maintenance of a mechanical system lawfully in existence at the
10 time of the adoption of this code.

11 **102.3 Maintenance.** Mechanical systems, both existing and new, and parts thereof shall be
12 maintained in proper operating condition in accordance with the original design and in a safe
13 and sanitary condition. Devices or safeguards that are required by this code shall be
14 maintained in compliance with the edition of the code under which they were installed. The
15 owner or the owner’s authorized agent shall be responsible for maintenance of mechanical
16 systems. To determine compliance with this provision, the code official shall have the
17 authority to require a mechanical system to be reinspected.

18 The inspection for maintenance of HVAC systems shall be performed in accordance with
19 ASHRAE/ACCA/ANSI Standard 180.

20 **102.4 Additions, alterations, or repairs.** Additions, alterations, renovations, or repairs to a

1 mechanical system shall conform to that required for a new mechanical system without
2 requiring the existing mechanical system to comply with all the requirements of this code.
3 Additions, alterations, or repairs shall not cause an existing mechanical system to become
4 unsafe, hazardous, or overloaded.

5 Minor additions, alterations, renovations, and repairs to existing mechanical systems
6 shall meet the provisions for new construction unless such work is done in the same manner
7 and arrangement as was in the existing system, is not hazardous, and is approved.

8 **102.5 Change in occupancy.** It shall be unlawful to make a change in the occupancy of any
9 structure which will subject the structure to any special provision of this code applicable to
10 the new occupancy without approval. The code official shall certify that such structure meets
11 the intent of the provisions of law governing building construction for the proposed new
12 occupancy and that such change of occupancy does not result in any hazard to public health,
13 safety, or welfare.

14 **102.6 Historic buildings.** The provisions of this code relating to the construction, alteration,
15 repair, enlargement, restoration, relocation, or moving of building or structures shall not be
16 mandatory for existing buildings or structures identified and classified by United States, the
17 state of Missouri, or the City of Saint Louis as historic buildings when such buildings or
18 structures are judged by the code official to be safe and in the public interest of health, safety,
19 and welfare regarding any proposed construction, alteration, repair, enlargement, restoration,
20 relocation, or moving of buildings.

21 **102.7 Moved buildings.** Except as determined by Section 102.2, mechanical systems that

1 are a part of buildings or structures moved into or within the City of Saint Louis shall comply
2 with the provisions of this code for new installations.

3 **102.8 Referenced codes and standards.** The codes and standards referenced in this code
4 shall be those that are listed in Chapter 15 and such codes and standards shall be considered
5 part of the requirements of this code to the prescribed extent of each such reference and as
6 further regulated in Section 102.8.1 and 108.2.2

7 **Exception:** Where enforcement of a code provision would violate the conditions of the
8 listing of the equipment or appliance, the conditions of the listing and the manufacturer's
9 installation instructions shall apply.

10 **102.8.1 Conflicts.** Where conflicts occur between provisions of this code and referenced
11 standards, the provisions of this code shall apply. Referenced standards shall be
12 permitted to be updated by rule making authority of the building commissioner.

13 **108.2 Provisions in referenced codes and standards.** Where the extent of a reference
14 to a referenced code or standard includes subject matter that is within the scope of this
15 code, the provisions of this code, as applicable, shall take precedence over the provisions
16 in the referenced code or standard.

17 **102.9 Requirements not covered by this code.** Requirements necessary for the strength,
18 stability, or proper operation of an existing or proposed mechanical system or for the public
19 safety, health, and general welfare not specifically covered by this code shall be determined
20 by the code official.

1 **102.10 Other laws.** The provisions of this code shall not be deemed to nullify any
2 provisions of local, state, or federal law.

3 **102.11 Application of references.** References to chapter section numbers or to provisions
4 not specifically identified by number shall be construed to refer to such chapter, section, or
5 provision of this code.

6 SECTION 103

7 SECTION OF MECHANICAL EQUIPMENT INSPECTION

8 **103.1 General.** There is hereby created the Section of Mechanical Equipment Inspection
9 within the Division of Building and Inspection which shall have control and enforce all
10 codes, regulations, and ordinances pertaining to mechanical installations and systems in
11 accordance with this code. The head of this section shall be known as the Mechanical
12 Equipment Inspection Supervisor, who shall be appointed by the Building Commissioner.
13 Throughout this code, the Mechanical Equipment Inspection Supervisor, the Chief
14 Mechanical Engineer, the Building Commissioner, and their authorized employees shall be
15 referred to as the code official.

16 **103.2 Mechanical equipment inspection supervisor.** There shall be appointed by the
17 Building Commissioner a Mechanical Equipment Inspection Supervisor. The Supervisor
18 shall have a minimum of five years experience as a Mechanical Inspector and possess the
19 qualifications established by the Department of Personnel.

1 **103.3 Deputies.** There shall be appointed by the code official a sufficient number of
2 Mechanical Equipment Inspectors to adequately perform all inspection duties and enforce all
3 ordinances pertaining to the Mechanical Equipment Inspection Section in accordance with
4 subsequent sections of this code and City of Saint Louis budgetary constraints. All
5 Mechanical Inspectors shall have had at least three years experience and possess the
6 qualifications set forth by the Department of Personnel.

7 **103.3.1 Assistant to the supervisor.** One such inspector shall assist the Mechanical
8 Equipment Inspection Supervisor. The assistant shall assume the responsibilities of the
9 Mechanical Equipment Inspection Supervisor in the Supervisor’s absence or disability.

10 **103.3.2 Restriction of employees.** An official or employee connected with the
11 Mechanical Equipment Inspection Section, except one whose only connection is that of a
12 member of the Board of Stationary Engineers, shall not be engaged in or directly or
13 indirectly connected with the furnishing of labor, materials, or appliances for the
14 construction, alteration, or maintenance of a building in the City of Saint Louis or the
15 preparation of construction documents thereof unless that person is the owner of the
16 building; nor shall such code official or employee engage in any work that conflicts with
17 official duties or with the interests of the department.

18 **103.4 Liability.** The code official and employees charged with the enforcement of this code,
19 while acting for the City of Saint Louis, shall not thereby be rendered liable personally and
20 are hereby relieved from all personal liability for any damage accruing to persons or property
21 as a result of any act required or permitted in the discharge of official duties.

1 Any suit or criminal complaint instituted against any code official or employee because
2 of an act performed in the lawful discharge of duties and under the provisions of this code
3 shall be defended by the legal representative of the City of Saint Louis until the final
4 termination of the proceedings. The code official or any employees shall not be liable for
5 any cost in or arising from any action, suit, or proceeding that is instituted in pursuance of the
6 provisions of this code. Any code official or employee of the Division of Building and
7 Inspection, Department of Public Safety, acting in good faith and without malice shall be free
8 from liability for acts performed under any of its provisions or by reason of any act or
9 omission in the performance of official duties in connection therewith.

10 The above protection shall also extend to former employees for work performed
11 during their period of employment with the City of Saint Louis.

12 **SECTION 104**

13 **DUTIES AND POWERS OF THE CODE OFFICIAL**

14 **104.1 General.** The code official shall enforce all of the provisions of this code and shall act
15 on any question relative to the installation, alteration, repair, maintenance, or operation of all
16 mechanical systems, devices, and equipment except as otherwise specifically provided for by
17 statutory requirements or as provided for in Sections 104.1.1 through 104.8.

18 **104.1.1 Emergency condemnation.** Whenever the code official shall find any building,
19 structure, premises, or portion thereof no matter for what purpose used to be in an unsafe
20 or dangerous condition and that there is an actual and potential danger to the occupants or

1 those in the proximity of any building, structure, or premises which poses an immediate
2 danger to public safety or welfare, the code official shall order the immediate evacuation
3 of said building, structure, or premises. All of the occupants so notified shall
4 immediately vacate the building, structure, or premises and no person shall re-enter until
5 authorized to do so by the code official.

6 Any person who refuses to leave, interferes with the evacuation of other occupants, or
7 continues any operation after having been given an evacuation order by the code official
8 except such person(s) directed to perform work to remove a violation or unsafe condition
9 shall be deemed in violation of this section whereupon it shall be the duty of the Police
10 Department to immediately remove such person(s) from said building, structure, or
11 premises and prevent anyone from re-entering the building, structure, or premises until
12 such time that the Police Department shall have been notified by the Building Division
13 that the same is in a safe condition.

14 Any person who shall violate any provisions of this section shall, upon conviction
15 thereof, be penalized as set forth in Section Four of the adopting ordinance.

16 **104.1.2 Authority to placard.** The code official has the authority to post a placard in a
17 conspicuous place on a building or premises where the mechanical system has been
18 found to be unsafe or inadequate.

19 **104.1.3 Placarded building.** Placards shall remain on said building until the required
20 repairs, replacements, or improvements have been made and accepted by the code official
21 and it shall be unlawful to deface or willfully remove any such placard that has been

1 posted on a building without first obtaining consent of the code official. It shall be
2 unlawful for any person to reside in, use, rent, lease, or occupy such building for any
3 purpose while so placarded.

4 **104.1.4 Rule making authority.** The Building Commissioner shall have authority, as
5 necessary in the interest of public health, safety, and general welfare, to adopt and
6 promulgate rules and regulations; to interpret and implement the provisions of this code;
7 to secure the intent thereof; and to designate requirements applicable because of local
8 climatic or other conditions. Such rules shall not have the effect of waiving structural or
9 fire performance requirements specifically provided for in this code, or of violating
10 accepted engineering practice involving public safety.

11 **104.1.5 Accepted engineering practice.** In the absence of provisions not specifically
12 contained in this code or approved rules, the regulations, specifications, and standards
13 listed in Chapter 15 shall be deemed to represent accepted engineering practice in respect
14 to the material, equipment, system, or method of construction therein specified.

15 **104.2 Applications and permits.** The code official shall receive applications for and issue
16 permits for the installation, replacement, relocation, and alteration of mechanical systems and
17 equipment; inspect the premises for which such permits have been issued; and enforce
18 compliance with the provisions of this code. Such application shall describe in detail the
19 nature of the work and the location thereof by street and number. No person shall begin such
20 work unless and until they shall have submitted a proper application and received a permit.
21 In the case of an emergency, work may begin upon the condition that such application has

1 been submitted on line at *stlcitypermits.com* prior to commencement of job.

2 **Exception:** Buildings, structures, or premises owned and occupied by the United States
3 of America or the State of Missouri.

4 **104.3 Inspections.** The code official shall make all of the required inspections or the code
5 official may accept reports of inspection by authoritative and recognized services or
6 individuals. All reports of such inspections shall be in writing and certified by a responsible
7 officer of such authoritative service or by the responsible individual. The code official is
8 authorized to engage such expert opinion as deemed necessary to report upon unusual
9 technical issues that arise subject to the approval of the appointing authority.

10 **104.3.1 Dangerous, hazardous, unsanitary, or unapproved installations.** The code
11 official shall have the authority to seal out of service mechanical equipment, devices, and
12 appurtenances covered by the Building and Mechanical Codes when, in the code
13 official's opinion, any of these items are in an unsafe, hazardous, or unsanitary condition,
14 or if the installation was made without obtaining the necessary permit or permits, or if the
15 installation violates the provisions of these codes.

16 **104.3.2 Notice of sealing out of service.** Before sealing any device out of service, the
17 code official shall, except in cases of emergency, serve ten calendar days written notice
18 upon the building owner, occupant, or collector of rent either directly or by United States
19 mail stating intention to seal the equipment out of service and the reasons therefore.

20 **104.3.3 Unlawful to remove seal.** Any device sealed out of service by the code official

1 shall be plainly marked with a sign or tag indicating such sealing and any defacing or
2 removal of the sign or tag, any tampering with or removal of the seal without approval of
3 the code official, or operation of the sealed unit shall constitute a violation of this code.
4 The penalty for violation of this section shall be as set forth in Section Four of the
5 adopting ordinance.

6 **104.3.4 Utility disconnect.** Whenever the code official determines that there is an
7 imminent danger to public safety, the code official may request that the public utilities be
8 disconnected to that structure or premises.

9 **104.4 Right of entry.** Whenever it is necessary to make an inspection to enforce the
10 provisions of this code or whenever the code official has reasonable cause to believe that
11 there exists in a building or upon any premises any condition or violation of this code which
12 makes the building or premises unsafe, unsanitary, dangerous, or hazardous, the code official
13 shall have the authority to enter the building or premises at all reasonable times to inspect or
14 to perform the duties imposed upon the code official by this code. If such building or
15 premises is occupied, the code official shall present credentials to the occupant and request
16 entry. If such building is unoccupied, the code official shall first make a reasonable effort to
17 locate the owner or other person having charge or control of the building or premises and
18 request entry. If entry is refused, the code official has recourse to every remedy provided by
19 law to secure entry.

20 When the code official has first obtained a proper inspection warrant or other remedy
21 provided by law to secure entry, an owner, the owner's authorized agent, occupant, or person

1 having charge, care, or control of the building or premises shall not fail or neglect, after
2 proper request is made as herein provided, to promptly permit entry therein by the code
3 official for the purpose of inspection and examination pursuant to this code.

4 **104.5 Identification.** The code official shall carry proper identification when inspecting
5 structures or premises in the performance of duties under this code.

6 **104.6 Notices and orders.** The code official shall issue all necessary notices or orders to
7 assure compliance with this code.

8 **104.7 Suspensions and Cancellations.** The code official shall have the power and is
9 directed to suspend for a definite time or to cancel any license granted hereunder if, after
10 notice and opportunity to be heard, the party named therein is found guilty by the Board of
11 Examiners of violating rules and regulations established by the Section of Mechanical
12 Equipment Inspection, and do all other acts necessary to carry out these provisions.

13 **104.8 Department records.** The code official shall keep official records of mechanical
14 applications received, permits issued, fees collected, licenses and certificates issued, reports
15 of inspections, and notices and orders issued. Such records shall be retained in the official
16 records for three years except notices and orders which have been complied need not be kept.

17 **SECTION 105**

18 **APPROVAL**

19 **105.1 Modifications.** Whenever there are practical difficulties involved in carrying out the

1 provisions of this code, the code official shall have the authority to grant modifications for
2 individual cases upon application of the owner or owner's authorized agent, provided the
3 code official shall first find that the special individual reason makes the strict letter of this
4 code impractical and the modification is in compliance with the intent and purpose of this
5 code and does not lessen health, life, and fire safety requirements. The details of action
6 granting modifications shall be recorded and entered in the files of the mechanical inspection
7 section.

8 **105.2 Alternative materials, methods, equipment, and appliances.** The provisions of this
9 code are not intended to prevent the installation of any material or to prohibit any method of
10 construction not specifically prescribed by this code, provided that any such alternative has
11 been approved. An alternative material or method of construction shall be approved where
12 the code official finds that the proposed design is satisfactory and complies with the intent of
13 the provisions of this code and that the material, method, or work offered is, for the purpose
14 intended, not less than the equivalent of that prescribed in this code in quality, strength,
15 effectiveness, fire resistance, durability, and safety. Where the alternative material, design,
16 or method of construction is not approved, the code official shall respond in writing, stating
17 the reasons the alternative was not approved.

18 **105.2.1 Research reports.** Supporting data, where necessary to assist in the approval of
19 materials or assemblies not specifically provided for in this code, shall consist of valid
20 research reports from approved sources.

21 **105.3 Required testing.** Whenever there is insufficient evidence of compliance with the

1 provisions of this code or evidence that a material or method does not conform to the
2 requirements of this code or in order to substantiate claims for alternative materials or
3 methods, the code official shall have the authority to require tests as evidence of compliance
4 to be made at no expense to the City of Saint Louis.

5 **105.3.1 Test methods.** Test methods shall be as specified in this code or by other
6 recognized and accepted test standards. In the absence of recognized and accepted test
7 methods, the code official shall approve the testing procedures.

8 **105.3.2 Testing agency.** Tests shall be performed by an approved independent agency.

9 **105.3.3 Test reports.** Reports of tests shall be retained by the code official for the period
10 required for retention of public records.

11 **105.4 Approved materials and equipment.** Materials, equipment, and devices approved by
12 the code official shall be constructed and installed in accordance with such approval.

13 **105.5 Material and equipment reuse.** Materials, equipment, and devices shall not be
14 reused unless such elements have been reconditioned, tested, and placed in good and proper
15 working condition and approved by the code official.

16 **SECTION 106**

17 **PERMITS**

18 **106.1 When required.** No person shall commence any mechanical work until a permit for

1 such work has been issued by the code official. The fees for said permits shall be paid to the
2 City of Saint Louis for each permit herein required. All work shall be done by the person or
3 corporation in whose name the permit or permits required by this section are issued or any
4 other qualified person or corporation designated by the permit holder. Any person who shall
5 fail to comply with or who shall violate any of the provisions of this section shall be subject
6 to the penalty provisions of Section Four of the adopting ordinance.

7 **Exception:** When equipment replacements or repairs must be performed in an
8 emergency situation, the permit application shall be submitted on line at
9 *stlcitypermits.com* prior to commencing job.

10 **106.2 Permits not required.** Permits shall not be required for any of the following:

- 11 1. Portable heating or cooling appliances.
- 12 2. Portable ventilation equipment.
- 13 3. Portable cooking unit.
- 14 4. The replacement of any minor part that does not alter the approval of equipment or
15 make such equipment unsafe.
- 16 5. Portable evaporation cooler.
- 17 6. Self-contained refrigeration systems containing 3 pounds (1.36 kg) or less of
18 refrigerant or that are actuated by motors of less than 1 horsepower (0.75 kW).
- 19 7. Self-contained refrigeration systems that 3 pounds (1.36 kg) or less of refrigeration or
20 that are actuated by motors of less than 1 horsepower (0.75 kW).
- 21 8. Portable fuel cell appliances that are connected to a fixed piping system and are not
22 interconnected to a power grid.

1 Exemption from the permit requirements of this code shall not be deemed to grant
2 authorization for work to be done in violation of the provisions of this code or other laws or
3 ordinance of the City of Saint Louis.

4 **106.3 Application for permit.** Each application for a permit shall be submitted on line at
5 *stlcitypermits.com*.

6 **106.4 Permit issuance.** The application, construction documents, and other data filed by an
7 applicant for a permit shall be reviewed by the code official. If the code official finds that the
8 proposed work conforms to the requirements of this code and all laws and ordinances
9 applicable thereto and that the fees specified in Section 106.5 have been paid, a permit shall
10 be issued to the applicant. A mechanical permit submitted on line is not approved until the
11 Mechanical Section approves it. A mechanical permit shall not be transferable.

12 If the application or the construction documents do not conform to the requirements of all
13 pertinent ordinances of the City of Saint Louis, the code official shall reject such application
14 in writing stating the reasons therefore.

15 **106.4.1 Approved construction documents.** When the code official issues a permit
16 where construction documents are required, such approved construction documents shall
17 not be changed, modified, or altered without authorization from the design professional
18 and the code official. Work shall be done in accordance with the approved construction
19 documents.

20 The code official shall have the authority to issue a permit for the installation of part
21 of a mechanical system before the application for the whole system has been submitted or

1 approved provided adequate information and detailed statements have been filed
2 complying with all the pertinent requirements of this code. The holder of such permit
3 shall proceed at their own risk without assurance that the permit for the entire mechanical
4 system will be granted.

5 Except for unsafe mechanical systems or installations, this code shall not require
6 changes in the construction documents or mechanical work for which a lawful permit has
7 been heretofore issued or otherwise lawfully authorized and the installation of which
8 shall have been actively prosecuted within ninety days after the effective date of this code
9 and is completed with dispatch.

10 **106.4.2 Validity.** The issuance of a permit or approval of construction documents shall
11 not be construed to be a permit for or an approval of any violation of any of the
12 provisions of this code or of other ordinances of the City of Saint Louis. A permit
13 presuming to give authority to violate or cancel the provisions of this code shall be
14 invalid.

15 The issuance of a permit based upon construction documents and other data shall not
16 prevent the code official from thereafter requiring the correction of errors in said
17 construction documents and other data or from preventing building operations from being
18 carried on thereunder when in violation of this code or of other ordinances of the City of
19 Saint Louis.

20 **106.4.3 Expiration.** Every permit issued by the code official under the provisions of this
21 code shall expire by limitation and become null and void if the work authorized by such

1 permit is not commenced within 180 days from the date of such permit or if the work
2 authorized by such permit is suspended or abandoned at any time after the work is
3 commenced for a period of 180 days. The code official may grant one or more
4 extensions of time for an additional period the total not to exceed six months if there is
5 reasonable cause. Before such work recommences, a new permit shall be first obtained
6 and a new fee paid.

7 **106.4.4 Extensions.** A permittee holding an unexpired permit shall have the right to
8 apply for an extension of the time within which the permittee will commence work under
9 that permit when work is unable to be commenced within the time required by this
10 section for good and satisfactory reasons. The code official shall extend the time for
11 action by the permittee if there is reasonable cause.

12 **106.4.5 Suspension or revocation of permit.** The code official shall have the authority
13 to suspend or revoke a permit or approval issued under the provisions of this code in case
14 of any false statement or misrepresentation of fact in the application or on the
15 construction documents upon which the permit or approval was based. A permit shall
16 also be considered for revocation under the following provisions:

- 17 1. The owner of the property or the contractor shall request cancellation in writing
18 stating the reasons for the request for cancellation. No refund of fees shall be
19 made.
- 20 2. The code official may revoke the permit for fraud, for non-compliance with the
21 code, or for failure to pay the prescribed fees.

1 Should the mechanical contractor install work that is not in compliance with the
2 Mechanical, Fire, or Building Code, the contractor shall be directed by the code official
3 to make necessary corrections to assure code compliance and no other permits shall be
4 issued to said contractor until such work is corrected and approved by the code official.

5 **106.4.6 Retention of construction documents.** One set of construction documents shall
6 be retained by the code official until final approval of the work covered therein. One set
7 of construction documents shall be returned to the applicant and said set shall be kept at
8 the site of the building or job at all times during which the work authorized thereby is in
9 progress.

10 **106.4.7 Previous approvals.** This code shall not require changes in the construction
11 documents, construction, or designated occupancy of a structure for which a lawful
12 permit has been heretofore issued or otherwise lawfully authorized and the construction
13 of which has been pursued in good faith within 180 days after the effective date of this
14 code and has not been abandoned.

15 **106.4.8 Posting of permit.** A true copy of the permit shall be kept on the site of
16 operations, open to public inspection during the entire time of prosecution of the work
17 and until the completion of the project.

18 **106.4.9 Business License Requirement.** A permit shall not be issued to any person that
19 does not have a current and valid Business License from the City of St. Louis.

20 **Exception:** An owner-occupant of a single family dwelling that shows sufficient

1 knowledge for the installation of a mechanical system to the Mechanical Equipment
2 Inspection Section. The homeowner shall be permitted to be granted a “Homeowners
3 Permit”. If said system installation requires the handling of refrigerants, the
4 homeowner must also have a certification as a Universal Technician as required by
5 40 CFR part 82, Subpart F, a federal law.

6 **106.5 Fees.** A permit shall not be issued until the fees prescribed in Table 106.5.2 have been
7 paid nor shall an addendum to a permit necessitating an additional fee because of the
8 additional work involved be released until the additional fee has been paid. Fees for the
9 inspections herein prescribed shall be paid to and collected by the City of Saint Louis. A
10 permit may be revoked if payment is returned for insufficient funds.

11 **106.5.1 Work commencing before permit issuance surcharge.** In case any work for
12 which a permit required by this code is started or preceded with prior to the permit being
13 issued, the total normal fees applicable shall be doubled or \$500.00 plus the original
14 permit fee, whichever is greater. The payment of said surcharge shall not relieve any
15 persons from fully complying with the requirements of this code for performance or
16 execution of the work nor from other penalties prescribed by law.

17 **106.5.2 Fee schedule.** The fees for mechanical work shall be as indicated in Table
18 106.5.2. Mechanical permit fees shall not be waived for contractors working in facilities
19 owned and operated by the City of Saint Louis.

**TABLE 106.5.2
FEES FOR MECHANICAL PERMITS**

Item	Fee
Application Fee	\$ 25.00
Amusement Rides, each	\$ 10.00
Auto Lifts, each	\$ 80.00
Boilers (except residential), each	\$ 100.00
Unfired Pressure Vessels, each	\$ 40.00
Refrigeration/Air Conditioning (chillers, condensing units, self-contained walk-in coolers/freezers), each Up to 15 tons 15 tons and over	\$ 60.00 \$85.00 + \$1.00 per ton
Cooling Towers, each	\$ 200.00
Ventilation Systems, each Air handling units, packaged units, make-up air units, unit heaters, unit ventilators, etc. 200CFM to 2000CFM 2001CFM to 5000CFM 5001CFM and over Air Terminal Units	\$ 200.00 \$ 80.00 \$ 140.00 \$ 180.00 \$40.00 1 st plus \$10.00 each additional
Exhaust Fans, each 200CFM to 2000CFM 2001CFM to 5000CFM 5001CFM and over	\$ 80.00 \$ 140.00 \$ 180.00
Exhaust Hoods, each	\$ 40.00
Smoke Control Fans, each location	\$ 250.00
Process Piping (waived for Use Group R3)	\$20.00 plus \$2.00 per horsepower serving the pipe
Residential Fees Use Groups R1, R2, and R3 Furnaces, each Condensing units, each Combination furnace/condensing unit, each	\$ 40.00 \$ 40.00 \$ 40.00
Re-inspection, each (for faulty or incomplete work at time of requested inspection)	\$ 25.00
Failure to request an inspection, each permit.	\$ 50.00

1 notify the permit holder or the permit holder's agent of violations that must be corrected.

2 The holder of the permit shall be responsible for the scheduling of such inspections.

3 1. Underground inspection shall be made after trenches or ditches are excavated and
4 bedded, piping installed, and before backfill is put into place. Where excavated soil

5 contains rocks, broken concrete, frozen chunks and other rubble that would damage
6 or break the piping or cause corrosive action, clean backfill shall be on the job site.

7 2. Rough-in inspection shall be made after the roof, framing, fireblocking, and bracing
8 are in place and all ducting and other components to be concealed are complete and
9 prior to the installation of wall or ceiling membranes.

10 3. Final inspection shall be made upon completion of the mechanical system.

11 **Exception:** Ground-source heat pump loop systems tested in accordance with Section
12 1210.10 shall be permitted to be backfilled prior to inspection.

13 The requirements of this section shall not be considered to prohibit the operation of any
14 heating equipment or appliances installed to replace existing heating equipment or appliances
15 serving an occupied portion of a structure provided that a request for inspection of such
16 heating equipment or appliances has been filed with the department not more than 48 hours
17 after such replacement work is completed and before and portion of such equipment or
18 appliances is concealed by any permanent portion of the structure.

19 **107.2.1 Other inspections.** In addition to the inspections specified in Section 107.2, the
20 code official is authorized to make or require other inspections of any construction to
21 ascertain compliance with the provisions of this code and other laws that are enforced.

1 **107.2.2 Inspection requests.** It shall be the duty of the holder of the permit or their duly
2 authorized agent to notify the code official when work is ready for inspection. It shall be
3 the duty of the permit holder to provide access to and means for inspections of such work
4 that are required by this code.

5 **107.2.3 Approval required.** Work shall not be done beyond the point indicated in each
6 successive inspection without first obtaining the approval of the code official. The code
7 official, upon notification, shall make the requested inspections and shall either indicate
8 the portion of the construction that is satisfactory as completed or notify the permit
9 holder or his or her agent wherein the same fails to comply with this code. Any portions
10 that do not comply shall be corrected and such portion shall not be covered or concealed
11 until authorized by the code official.

12 **107.2.4 Approved inspection agencies.** The code official is authorized to accept reports
13 from approved agencies provided that such agencies satisfy the requirements as to
14 qualifications and reliability.

15 **107.2.5 Evaluation and follow-up services.** Prior to the approval of a prefabricated
16 construction assembly having concealed mechanical work and issuance of a mechanical
17 permit, the code official shall require the submittal of an evaluation report on each
18 prefabricated assembly indicating the complete details of the mechanical assembly,
19 including a description of the system and its components, the basis upon which the
20 assembly is being evaluated, test results and similar information, and other data as
21 necessary for the code official to determine conformance with this code. Acceptable

1 reports shall be permitted to come from the State of Missouri Public Service Commission
2 or ICC Evaluation Services.

3 **107.2.5.1 Evaluation service.** The code official shall designate the evaluation
4 service of an approved agency as the evaluation agency and review such agency's
5 evaluation report for adequacy and conformance to this code.

6 **107.2.5.2 Follow-up inspection.** Except where ready access is provided for
7 mechanical systems, service equipment and accessories for complete inspection at the
8 site without disassembly or dismantling, the code official shall conduct the in-plant
9 inspections as frequently as necessary to ensure conformance to the approved
10 evaluation report or shall designate an approved independent inspection agency to
11 conduct such inspections. The inspection agency shall furnish the code official with
12 the follow-up inspection manual and a report of inspections upon request, and the
13 mechanical system shall have an identifying label permanently affixed to the system
14 indicating that factory inspections have been performed.

15 **107.2.5.3 Test and inspection records.** Required tests and inspection records shall
16 be accessible to the code official at all times during the fabrication of the mechanical
17 system and the erection of the building; or such records as the code official
18 designates shall be filed.

19 **107.2.6 Coordination of inspections.** Whenever in the enforcement of this code or
20 another code or ordinance the responsibility of more than one code official is involved, it

1 shall be the duty of the code officials involved to coordinate their inspections and
2 administrative orders as fully as practicable. Whenever an inspector observes an
3 apparent or actual violation of some provision of some law, ordinance, or code not within
4 the inspector's authority to enforce, the inspector shall report the findings to the code
5 official having jurisdiction.

6 **107.3 Testing.** Mechanical systems shall be tested as required in this code and in accordance
7 with Sections 107.3.1 through 107.3.3. Tests shall be made by the permit holder and
8 observed by the code official.

9 **107.3.1 New, altered, extended, or repaired systems.** New mechanical systems and
10 parts of existing systems which have been altered, extended, renovated, or repaired shall
11 be tested as prescribed herein to disclose leaks and defects.

12 **107.3.2 Apparatus, material, and labor for tests.** Apparatus, material, and labor
13 required for testing a mechanical system or part thereof shall be furnished by the permit
14 holder.

15 **107.3.3 Reinspection and testing.** Where any work or installation does not pass an
16 initial test or inspection, the necessary corrections shall be made so as to achieve
17 compliance with this code. The work or installation shall then be resubmitted to the code
18 official for inspection and testing.

19 **107.4 Approval.** All equipment subject to an annual inspection shall be identified by a
20 metal tag bearing the city identification number. Stickers shall be applied to said equipment

1 upon annual inspections. Stickers shall also be applied to residential (R-3 occupancy)
2 equipment.

3 **107.4.1 Revocation.** The code official is authorized to, in writing, suspend or revoke a
4 notice of approval issued under the provisions of this code whenever the notice is issued
5 in error on the basis of incorrect information supplied or where it is determined that the
6 building, structure, premise, or portion thereof is in violation of any ordinance or
7 regulation or any of the provisions of this code.

8 **107.5 Temporary connection.** The code official shall have the authority to authorize the
9 temporary connection of a mechanical system to the sources of energy for the purpose of
10 testing mechanical systems or for use under a temporary certificate of occupancy.

11 **107.6 Connection of service utilities.** A person shall not make connection from a utility,
12 source of energy, fuel, or power to any building or system that is regulated by this code for
13 which a permit is required until authorized by the code official.

14 **107.7 Moved structures.** Before any structure that has been moved within or into the City
15 of Saint Louis is occupied, all mechanical equipment and devices shall be inspected and
16 tested for safe operation and compliance with the requirements of this code.

17 **Exception:** Mechanical systems within manufactured units bearing certification of the
18 Missouri Public Service Commission.

19 **107.8 Failure to comply.** In the event that these orders are not followed the code official
20 may prohibit occupancy.

1 **107.9 Legal compliance.** All legal assistance necessary to effect compliance of the
2 mechanical systems with this section shall be supplied to the code official by the City
3 Counselor and other City of St. Louis agencies. The Fire and Police Departments of the City
4 of St. Louis shall, upon request, assist the code official in the enforcement of this code.

5 **SECTION 108**

6 **VIOLATIONS**

7 **108.1 Unlawful acts.** It shall be unlawful for a person, firm or corporation to erect,
8 construct, alter, repair, remove, demolish, utilize a mechanical system, or cause same to be
9 done in conflict with or in violation of any of the provisions of this code or any decision.

10 **108.2 Notice of violation.** The code official is authorized to serve a notice of violation or
11 order on the owner as shown in the records of the City of Saint Louis Assessor's Office or
12 person responsible for the erection, installation, alteration, extension, repair, removal, or
13 demolition of mechanical work in violation of the provisions of this code, in violation of a
14 detail statement or the approved construction documents thereunder, or in violation of a
15 permit or certificate issued under the provisions of this code. Such order shall direct the
16 discontinuance of the illegal action or condition and the abatement of the violation. Such
17 notice shall be permitted to be served by the United States mail. Posting of the premises
18 shall also constitute notice. It shall be a violation of this code for any person to remove any
19 such notice lawfully posted pursuant to this code unless otherwise ordered by the building
20 official.

1 **108.3 Prosecution of violation.** If the notice of violation is not complied within the time
2 stated in the Notice of Violation, but no longer than thirty days, the code official shall request
3 the legal counsel of the City of Saint Louis to institute the appropriate proceedings at law or
4 in equity to restrain, correct, or abate such violation or to require the removal or termination
5 of the unlawful occupancy of the structure in violation of the provisions of this code or of the
6 order or direction made pursuant thereto. The time for compliance may be extended by the
7 code official upon written request if there are extenuating circumstances.

8 **108.4 Violation penalties.** Any person, partnership, or corporation who shall violate a
9 provision of this code or shall fail to comply with any of the requirements herein or who shall
10 erect, install, alter, or repair mechanical equipment or systems in violation of the approve
11 construction documents or directive of the code official or of a permit or license issued under
12 the provisions of this code shall, upon conviction thereof, be penalized as set forth in Section
13 Four of the adopting ordinance.

14 **108.5 Stop work orders.** Upon notice from the code official that mechanical work is being
15 performed contrary to the provision of this code, in a dangerous or unsafe manner, or without
16 permit, such work shall immediately cease. Such notice shall be in writing and shall be
17 given to the owner of the property involved, to the owner’s authorized agent, or to the person
18 doing the work. The notice shall state the conditions under which the work is authorized to
19 resume. Where an emergency exists, the code official shall not be required to give a written
20 notice prior to stopping the work. Any person who shall continue any work on the system
21 after having been served with a stop work order, except such work as that person is directed

1 to perform to remove a violation or unsafe conditions, shall be subject to immediate arrest
2 and, upon convicted thereof, shall be penalized as set forth in Section Four of the adopting
3 ordinance.

4 **108.6 Abatement of violation.** The imposition of the penalties herein prescribed shall not
5 preclude the legal officer of the City of Saint Louis from instituting appropriate action to
6 prevent unlawful construction or to restrain, correct, or abate a violation, to prevent illegal
7 occupancy of a building, structure, or premises, or to stop an illegal act, conduct, business, or
8 utilization of the mechanical system on or about any premises.

9 **108.7 Unsafe mechanical systems.** A mechanical system that is unsafe, constitutes a fire
10 hazard, or is otherwise dangerous to human life as regulated by this code is hereby declared
11 as an unsafe mechanical system. Use of a mechanical system regulated by this code
12 constituting a hazard to health, safety, or welfare by reason of inadequate maintenance,
13 dilapidation, fire hazard, disaster, damage, or abandonment is hereby declared an unsafe use.
14 Such unsafe equipment is hereby declared to be a public nuisance and shall be abated by
15 repair, rehabilitation, demolition, or removal.

16 **108.7.1 Authority to condemn mechanical systems.** Whenever the code official
17 determines that any mechanical system or portion thereof regulated by this code has
18 become hazardous to life, health, property, or has become unsanitary, the code official
19 shall order in writing that such system either be removed or restored to a safe condition.
20 A time limit for compliance with such order shall be specified in the written notice. A
21 person shall not use or maintain a defective mechanical system after receiving such

1 notice.

2 When such mechanical system is to be disconnected, written notice as prescribed in
3 Section 108.2 shall be given. In cases of immediate danger to life or property, such
4 disconnection shall be made immediately without such notice.

5 **108.7.2 Authority to order disconnection of energy sources.** The code official shall
6 have the authority to order disconnection of energy sources supplied to a building,
7 structure, or mechanical system regulated by this code when it is determined that the
8 mechanical system or any portion thereof has become hazardous or unsafe. Written
9 notice of such order to disconnect service and the causes therefore shall be given within
10 twenty-four hours to the owner, the owner's authorized agent, and occupant of such
11 building, structure, or premises provided, however, that in cases of immediate danger to
12 life or property, such disconnection shall be made immediately without such notice.
13 Where energy sources are provided by a public utility, the code official shall immediately
14 notify the serving utility in writing of the issuance of such order to disconnect.

15 **108.7.3 Connection after order to disconnect.** A person shall not make energy source
16 connections to mechanical systems regulated by this code which have been disconnected
17 or ordered to be disconnected by the code official or the use of which has been ordered to
18 be discontinued by the code official until the code official authorizes the reconnection
19 and use of such mechanical systems.

20 Where a mechanical system is maintained in violation of this code and in violation of
21 a notice issued pursuant to the provisions of this section, the code official shall institute

1 appropriate action to prevent, restrain, correct, or abate the violation.

2 **SECTION 109**

3 **MEANS OF APPEAL**

4 **109.1 Appeals.** Any person or entity aggrieved by the decision of the code official or any
5 Board hereunder may appeal said decision to the Board of Building Appeals in the manner
6 prescribed in Section 113.0 of the Building Code. The fee for said appeal is as prescribed in
7 the Building Code.

8 **SECTION 110**

9 **TEMPORARY EQUIPMENT, SYSTEMS, AND USES**

10 **110.1 General.** The code official is authorized to issue a permit for temporary equipment,
11 systems, and uses. Such permits shall be limited as to time of service, but shall not be
12 permitted for more than 180 days. The code official is authorized to grant extension for
13 demonstrated cause.

14 **110.2 Conformance.** Temporary equipment, systems, and uses shall conform to the
15 structural strength, fire safety, means of egress, accessibility, light, ventilation, and sanitary
16 requirements of this code as necessary to ensure the public health, safety, and general
17 welfare.

18 **110.3 Temporary utilities.** The code official is authorized to give permission to temporarily

1 supply utilities before an installation has been fully completed and the final certification of
2 compliance has been issued. The part covered by the temporary certificate shall comply with
3 the requirements specified for temporary lighting, heat, or power in the code.

4 **110.4 Termination of approval.** The code official is authorized to terminate such permit
5 for temporary equipment, systems, or uses and to order the temporary equipment, systems, or
6 uses to be discontinued.

7 SECTION 111

8 BOARD OF STATIONARY ENGINEERS

9 **111.1 General.** There is hereby established a Board of Stationary Engineers. The Board
10 shall act in an advisory capacity to the code official in the preparation of rules and
11 regulations regarding installation, use, and operation of boilers, steam generators, and
12 pressure vessels consistent with the provisions of this code.

13 **111.1.1 Composition of board.** The Board of Stationary Engineers shall be composed
14 of three members, one member who shall be the code official or duly authorized
15 representative and two other members who shall be appointed by the Mayor.

16 The two members appointed by the Mayor shall be engineers licensed by the City of
17 Saint Louis under the provisions of this section as Class I Licensed Stationary Engineers
18 with a minimum of five years experience in the operation and maintenance of steam
19 engines, steam boilers, or steam turbines. The members of the existing Board of

1 Stationary Engineers shall be replaced only upon the appointment of new members by the
2 Mayor at which time (and thereafter) there shall not be two members of the Board of
3 Stationary Engineers who work for or are representatives of the same company, entity, or
4 international union organization or an affiliate thereof. The Board of Stationary
5 Engineers shall elect its own chairman.

6 **111.1.2 Duties of the board.** The Board of Stationary Engineers shall give oral
7 examinations to all applicants for Stationary Engineer's licenses, issue Boiler Operator
8 Certificates of Competency or Stationary Engineer's licenses to those who pass their
9 respective tests, suspend or revoke such certificate or license for failure to maintain the
10 standards imposed by this section of the code, and may order the reinspection of any
11 boiler, steam generator, or pressure vessel whenever deemed necessary for public safety.

12 **111.2 Board sessions.** The Board of Stationary Engineers shall provide for regular meetings
13 and the code official shall act as the secretary to the Board and shall keep the minutes of all
14 proceedings. The Board shall convene for business at least once a month and at such
15 additional times as the chairman shall designate to conduct the business of the Board. A
16 majority of the members of the Board of Stationary Engineers shall constitute a quorum. The
17 Secretary shall keep a register of the names and addresses of all successful applicants
18 designating those found to be qualified for the various classes provided herein.

19 **111.3 Rules and regulations.** The Board of Stationary Engineers shall have the power to
20 adopt such rules and regulations consistent with this section as it may deem necessary for the
21 application of the provisions of this section. Such rules and regulations shall become

1 effective upon approval by the majority of the Board, shall be on file in the office of the code
2 official, and shall be available to the public upon request.

3 **111.4 Boiler operator certificate of competency.** The operation of boilers or steam
4 generators which are generating saturated steam in a pressure range of fifteen psig minimum
5 to one hundred and fifty psig maximum each of which boilers has not more than one hundred
6 square feet of rated heating surface shall be at all times in the charge of a certified Boiler
7 Operator. Application for a Boiler Operator's Certificate of Competency is to be made to the
8 code official or duly authorized representative. The code official upon finding that the
9 applicant is thoroughly familiar with the operational principles which concern the safety and
10 care of the boiler or steam generator, shall issue to such applicant a Boiler Operator
11 Certificate of Competency. The certificate is issued for work at a single specific location as
12 designated on the application and is not transferable. The fee for the examination shall be as
13 listed in Table 110.9.

14 **111.5 Licensing of stationary engineers required.** All Stationary Engineers shall be
15 licensed as to the class as set forth in sections 111.5.1 through 111.5.4.

16 **111.5.1 Licensing of operators of boilers or steam generators less than 1500 square**
17 **foot of heating surface.** Any boiler or steam generator which has not more than 1500
18 square feet of rated heating surface and which is rated to generate steam at pressures
19 between 15 psig and 300 psig maximum, or which is rated to generate hot water above
20 160 psig and 250°F to 300 psig, and associated equipment shall be in the charge of an

1 attending Class II or a Class I licensed Stationary Engineer whenever in operation.
2 Square footage shall be determined by the total input to a single header.

3 **111.5.2 Licensing of operators of boilers or steam generators in excess of 1500**
4 **square feet of heating surface.** Any boiler or steam generator producing saturated or
5 superheated steam above 212°F in excess of 15 psig having a rated heating surface in
6 excess of 1,500 square feet of hot water or any other liquid as defined in this code, or any
7 boiler or steam generator producing saturated or superheated steam or any high
8 temperature liquid above 212°F in excess of 300 psig regardless of rated heating surface,
9 and any steam engine or steam turbine associated with either of the said boilers or steam
10 generators shall be in the charge of an attending Class I licensed Stationary Engineer
11 whenever in operation. Square footage shall be determined by the total input to a single
12 header.

13 **111.5.3 Licensing of operators of ammonia systems from 50 to 100 tons.** Any
14 ammonia system totaling between 50 tons and 100 tons rated capacity shall be in the
15 charge of an attending Class I or Class II licensed Stationary Engineer where located in
16 any and all buildings and whenever in operation.

17 **111.5.4 Licensing of operators of ammonia systems 100 tons and over.** Any ammonia
18 system totaling 100 tons or more rated capacity shall be in the charge of an attending
19 Class I licensed Stationary Engineer where located in any and all buildings and whenever
20 in operation.

1 **111.6 Stationary engineer’s license applications.** The application for all classes of licenses
2 shall be filed with the Secretary of the Board on the form prescribed by the Board of
3 Stationary Engineers. Within a reasonable time, the Board shall examine all applicants who
4 meet qualifications under Sections 111.6.1 thru 111.6.3 for the various classes of licenses in
5 order to ascertain whether the applicants possess the knowledge, skill, ability, and
6 competency required for the class of license applied for and for the safe operation of various
7 equipment. The Board shall issue to such applicants a license upon the Board finding that
8 the applicant possesses the necessary qualifications and has successfully passed the required
9 examination for the type of license sought.

10 **111.6.1 Qualifications for stationary engineer, class I.** All applicants for a Class I
11 Stationary Engineer’s license shall be a citizen of the United States, shall have made
12 application for such citizenship, or shall be authorized to hold employment by the
13 Immigration and Naturalization Service. The applicant shall be at least twenty-one years
14 of age and shall have had at least two years of training under a Class I licensed Stationary
15 Engineer or equivalent training, or shall be registered with the Missouri State Board of
16 Registration for Architects and Professional Engineers as an Engineer or as an Engineer
17 in Training, and shall have been actually employed in the engineering or research
18 division of a power generating plant in an engineering capacity for a minimum of twelve
19 months. The Board may accept twelve months of formal training by a nationally
20 recognized agency in lieu of experience. The applicant shall demonstrate their
21 knowledge, skill, ability, and competency to the Board to operate boilers or steam
22 generators of any size or capacity rating which are generating saturated or superheated

1 steam at any pressure in excess of fifteen psig, or hot water or any other liquid as defined
2 in this code, and ammonia systems in excess of one hundred tons capacity, and to operate
3 associated power plant components and auxiliaries such as steam turbines, engines, air
4 compressors, ammonia systems, pumps, and feed water heaters, electric generators, and
5 other equipment.

6 **111.6.2 Qualifications for stationary engineer, class II.** All applicants for a Class II
7 Stationary Engineer's license shall be a citizen of the United States, shall have made
8 application for such citizenship, or shall be authorized to hold employment by the
9 Immigration and Naturalization Service, and shall be at least nineteen years of age. The
10 applicant shall have had at least one year's experience in the operations of steam boilers
11 or steam generators under the supervision of a Class I or Class II Stationary Engineer or
12 equivalent training, or shall have had one year's experience in maintenance work on
13 steam boilers, steam generators, or steam engines or steam turbines or ammonia systems
14 in excess of fifty tons capacity, or shall be registered with the Missouri State Board of
15 Registration for Architects and Professional Engineers as an Engineer or as an Engineer
16 in Training. The Board may accept twelve months of formal training by a nationally
17 recognized agency in lieu of experience. The applicant shall demonstrate their
18 knowledge, skill, ability, and competency to the Board to operate boilers or steam
19 generators which have not more than 1,500 square feet of rated heating surface and which
20 are generating saturated or superheated steam in a pressure range of 15 psig minimum to
21 300 psig maximum, or hot water or any other liquid as defined in this code, and to
22 operate associated compressors, ammonia compressors, pumps, and feed water heaters,

1 electric generators, and other equipment.

2 **111.6.3 Qualifications for Stationary Engineer, Class II Restricted.** The Board of
3 Stationary Engineers shall be permitted to license applicants for a Stationary Engineer's
4 license as Class II Restricted Stationary Engineers upon finding that the applicant is
5 thoroughly familiar with the operating principals which concern the safety and care of the
6 boiler or steam generator. The Class II Restricted Stationary Engineer's license is issued
7 for work at a specific location as designated on the application and is not transferable.

8 **111.7 Examination (all classes) for stationary engineers.** The examination for a Class II
9 Stationary Engineer's license shall be oral. The examination for Class I Stationary
10 Engineer's license shall be both oral and written, provided that the applicant shall attain a
11 predetermined percentage as set by the Board of Stationary Engineers in the written
12 examination before the applicant becomes eligible for the oral examination. The written
13 examination must be completed within six months from the date of application. If the
14 applicant does not pass either the oral or written examination the applicant shall wait ninety
15 days before filing a new application. The written examination required by this Section 111
16 shall be given and administered by independent, third-party testing agencies approved by the
17 Board of Stationary Engineers.

18 **111.8 Temporary operation by unlicensed persons.** In cases of emergency and with the
19 approval of the code official, an owner or steam user may appoint a trustworthy experienced
20 person familiar with the operation of the plant as a temporary operator in plants where
21 licensed operators are required by this code.

1 **111.8.1 Permit to operate.** Before a designated person can operate the plant, the code
2 official or duly appointed representative shall be notified. An inspection of the plant
3 shall be made to determine the fitness of the appointed operator. If such person is found
4 to be fit, a permit shall be issued by the code official for such person to operate the plant
5 on a temporary basis; such permit shall be issued for no longer than thirty days. After
6 issuance of the permit, inspection of the plant thereafter shall be on a daily basis as long
7 as the operator remains in the temporary classification. An inspection fee shall be
8 charged per inspection to the owner or steam user payable upon receipt of bill; total cost
9 to be determined at the conclusion of the daily inspections. See Table 111.9 for fee
10 schedule.

11 **111.8.2 Application for license.** Within three working days after permission is granted,
12 the designated operator shall make application to the Board of Stationary Engineers for
13 examination for the class license required for the plant. Application and examination
14 shall be in accordance with the provisions of section 111.6. In the case of a Class I
15 examination the applicant shall complete the written portion of the examination within
16 fourteen days. Both written and oral parts of the examination shall be completed so that
17 the applicant's qualifications for licensing shall be determined within the thirty day
18 period of emergency operation. If the Board of Stationary Engineers determines that the
19 applicant has failed the examination, the applicant's permit to operate on a temporary
20 basis shall be revoked immediately and such person shall not be eligible for
21 reappointment as a temporary operator until the examination has been passed.

1 **111.9 Licenses and fees.** At the time of the filing of the application, each applicant for a
2 Boiler Operator Certificate of Competency or Stationary Engineer’s license shall pay to the
3 Secretary of the Board of Stationary Engineers a filing fee as set forth in Table 111.9 to cover
4 the cost of the examination given under the provisions of this section, provided further that
5 under no conditions shall said sum or any part thereof be refunded if the applicant fails to
6 pass the examination or if the applicant fails to complete the written examination within the
7 prescribed time limit as set by the Board of Stationary Engineers. All monies received by the
8 secretary shall be paid to the City Treasurer. All applicants passing the examination for a
9 Class I or Class II Stationary Engineer’s license shall be presented upon the passage of such
10 examination with a Stationary Engineer’s license for the class for which they have been
11 licensed. All licenses shall be issued for a period of one year from the date of issuance and
12 shall be renewed each year. The fee for licenses renewal shall be as specified in Table 111.9.

TABLE 111.9
LICENSE FEES - BOARD OF STATIONARY ENGINEERS

Item	Fee	Duration	Remarks & requirements
STATIONARY ENGINEER’S LICENSE Examination & Application Fee Class I Class II Renewal Fee Class I Class II	\$ 25.00 \$ 25.00 \$ 25.00 \$ 25.00	1 year 1 year 1 year 1 year	
BOILER OPERATOR’S CERTIFICATE OF COMPETENCY Examination Fee Renewal	\$ 15.00 \$ 15.00	1 year	Includes initial certification Issued for one year from date
TEMPORARY BOILER PLANT OPERATOR Permit - per day	\$100.00		Issued for up to 30 days

1 **111.9.1 License to be displayed.** At all times when boilers, steam generators, or
2 associated equipment are in use and are operating, there shall be in charge and attendance
3 a licensed Stationary Engineer of the class designated in Sections 111.5.1 thru 111.5.4.
4 The license shall be displayed in some prominent place where the boilers, steam
5 generators, and associated equipment are in use and any licensed Stationary Engineer
6 shall be negligent in the performance of their duties should they fail to display the license
7 or have an invalid license on display while in attendance of boilers, steam generators, and
8 associated equipment in their charge and in operation.

9 **111.9.2 Renewal.** Boiler Operator Certificates of Competency and Stationary Engineer's
10 licenses shall be renewed annually by the Board of Stationary Engineers upon the timely
11 payment of an annual renewal fee, which payment shall be made not later than 30 days
12 after the expiration date of said license. In the event payment of the required renewal fee
13 is not made within 30 days after the applicable expiration date of the license, then the
14 license shall be deemed expired and the licensed holder shall not be permitted to perform
15 work requiring a valid license under this code until the license is reinstated. Licenses
16 that expire because of non-payment of the required renewal fee shall be reinstated
17 automatically upon payment of the fee provided the fee is paid within 120 days of the
18 expiration of the license. Thereafter, expired licenses can be reinstated by the Board of
19 Stationary Engineers for good cause, absent which the license holder must re-apply for
20 and satisfy the standards for issuance of a new license. The Board of Stationary
21 Engineers shall have the power to revoke such certificate or license for cause.

1 **111.9.3 Notice of change of employment.** Every Stationary Engineer or Boiler Operator
2 regulated under the provisions of this section is required to notify the Secretary of the
3 Board of Stationary Engineers within forty-eight hours thereafter when they accept or
4 leave employment as a Stationary Engineer or Boiler Operator and to submit the name of
5 their new employer.

6 **111.10 Penalty.** Any owner or steam user of a boiler, steam generator, or associated
7 equipment who shall neglect or refuse to employ a licensed Stationary Engineer of the class
8 designated in Section 110.5, or who allows any unlicensed person to be in charge and
9 attendance of boilers, steam generator, or associated equipment requiring a licensed
10 Stationary Engineer, except as provided for in section 111.8, shall, upon conviction thereof,
11 be penalized as set forth in Section Four of the adopting ordinance.

12 **111.10.1 Penalty for violation by operators.** Any licensed Class II Stationary Engineer
13 or certified Boiler Operator who shall be in charge of and attending the operation of a
14 boiler, steam generator, or associated equipment in excess of the legal size and capacity
15 shall, upon conviction thereof, be penalized as set forth in Section Four of the adopting
16 ordinance. In addition to such fine, the license of such Stationary Engineer or the
17 Certificate of Competency of the Boiler Operator shall be suspended for a period not to
18 exceed ninety days or revoked as determined by the Board of Stationary Engineers.

19 **111.10.2 Suspension of license.** The Board of Stationary Engineers shall order the
20 suspension for not exceeding ninety days or revocation of a Stationary Engineer license
21 or Boiler Operator Certificate of Competency of any person regulated under the

1 provisions of this section where the Board, after a public hearing, finds that the licensee
2 is addicted to drugs or alcohol, or was under the undue influence of drugs or alcohol
3 while in attendance and performing their duties as a licensed Stationary Engineer or
4 certified Boiler Operator, or has been negligent in the performance of their duties while
5 in attendance of the equipment for which they are licensed so as to endanger the lives and
6 property of persons in the immediate area of such equipment; provided further that such
7 person shall be given a ten day notice of the time and place of such hearing. Such person
8 may be represented by counsel at such hearing before such Board. The Board of
9 Stationary Engineers, at their discretion, may order a new examination for applicants for
10 reinstatement of a license or certificate suspended or revoked under the provisions of this
11 section.

12 The Board of Stationary Engineers shall also order the suspension, for a period not to
13 exceed thirty days, of the Stationary Engineer's license or Boiler Operator Certificate of
14 Competency of any person licensed under the provisions of this section where the Board,
15 after a public hearing, shall find that the licensee has failed to comply with the provisions
16 of this section. Such person shall be given a ten day notice of such hearing and may be
17 represented by counsel at such hearing.

18 **111.11 Failure to comply.** Any owner or steam user who fails to comply with the above
19 provisions of this code shall be in violation of this code and the code official shall and is
20 hereby directed to consider the plant unsafe and officially seal the plant out of service.

1 Louis, (b) one registered professional engineer, (c) two Journeymen as that term is defined
2 herein, and (d) one user of a mechanical system subject to this code which user shall be either
3 an owner, lessee, or keeper of any commercial structure with a mechanical system or the
4 agent of such a person. Each of the above shall be a United States Citizen.

5 The members of the Board shall replace the Board of Examiners of Mechanical
6 Contractors currently in existence within the City of St. Louis pursuant to Section 25.10.030
7 of the Revised Code of the City of Saint Louis. This replacement shall take place gradually
8 over time as follows and during the period of transition, the current Board of Examiners of
9 Mechanical Contractors shall serve and act as the Board of Examiners for Mechanical
10 Licensing in accordance with the provisions of this section. The “Contractor” member of the
11 Board (pursuant to Subsection (a) above) shall be appointed upon the determination of the
12 Mayor to replace the “Mechanical Contractor” now serving on the Board of Examiners for
13 Mechanical Contractors. The “Registered Professional Engineer” member of the Board
14 (pursuant to subsection (b) above) shall be appointed upon the determination of the Mayor to
15 replace the “Registered Professional Engineer” now serving on the Board of Examiners for
16 Mechanical Contractors. The two “Journeymen” members of the Board (pursuant to
17 subsection (c) above) shall be appointed upon the determination of the Mayor to replace the
18 respective two “Journeyman Pipefitters” now serving on the Board of Examiners for
19 Mechanical Contractors. The “User” member of the Board (pursuant to subsection (d)
20 above) shall be appointed upon the determination of the Mayor to replace the “User” member
21 now serving on the Board of Examiners for Mechanical Contractors.

22 Upon the re-constitution of the Board pursuant to this section as set forth above and

1 continuing thereafter: (i) there shall not be two members of the Board who work for or are
2 representatives of the same company, entity, or international union organization or an
3 affiliate thereof and the two Journeymen members of the Board shall be from different trades
4 and (ii) no member appointed to the Board may serve more than two consecutive terms. The
5 Board shall elect one of its members to serve as Chair and another to serve as Vice Chair.

6 **112.4 Secretary of the Board, Duties.** The duties of the Secretary of the Board of
7 Examiners shall be as stated with respect to similar Boards. The Secretary of the Board shall
8 be nonvoting. The secretary shall record all meeting notices, shall keep full and complete
9 minutes of all acts and proceedings of said Board, and shall provide all applicants for a
10 license under this section with proper application forms. The secretary shall maintain and
11 secure all examinations, examination documents, and materials as directed by the Board;
12 review all applications for licenses to determine their completeness within fifteen days of
13 their filing; keep a file of the name and address of every person or firm licensed by the Board
14 and the name and address of every person or firm whose application for a license has been
15 denied; and return all incomplete applications to applicants within fifteen days of
16 determination of incompleteness, specifying the respects in which the application is
17 incomplete. The Secretary shall file with the City Clerk a copy of all rules and regulations
18 adopted by the Board and make such rules and regulations available to all license holders and
19 current applicants.

20 **112.5 Term of Office, Compensation.** The members of the Board shall hold office for a
21 term of four years or until their successors are duly appointed and qualified by the Mayor.

1 **112.6 Powers and Duties of the Board of Examiners.** It shall be the duty of the Board to
2 meet once every month and more often if the Board deems necessary for the performance of
3 its duties and to hear and determine any charges or complaints made against licensed
4 contractors or journeymen; approve or disapprove all license applications; and transact any
5 other lawful business of the Board.

6 1. At every Board meeting, the Board shall consider and take action to grant or reject all
7 open and properly completed license applications that have been filed at least fifteen
8 days prior to the Board meeting. For any application that is rejected, the Secretary
9 shall notify the applicant in writing of the reasons for rejection within five days after
10 the Board's action. Notice of the date, time, and place of each Board meeting
11 together with an agenda of the meeting shall be made publicly available at least seven
12 days prior to the Board meeting.

13 2. Subject to the provisions of Section 109.1 above, the Board shall have the power to
14 suspend and revoke any license issued pursuant to this Section for violation of the
15 provisions of this code. All complaints by citizens concerning mechanical
16 installation procedures or rules shall be made to the Board in writing. After a
17 thorough investigation, the Board shall respond to the complaint in writing. The
18 Chair or acting Chair, with the approval of the Board, shall have power to administer
19 oaths, subpoena witnesses, and compel the production of books, papers, and tangible
20 things and the inspection of premises pertinent to any investigation or hearing
21 authorized by this Section.

22 3. The Board shall request from the code official to adopt policy memo changes in

1 accordance with Section 104.1.4 of this ordinance.

2 4. All applicant records which disclose the applicant's income or a portion thereof shall
3 be returned by the Board to the applicant upon completion of the licensing process.

4 Applicant records which disclose the names of past or present customers of the
5 applicant or his employer shall be retained only for the purpose of use in possible
6 litigation and license revocation hearings and shall not be deemed public records, and
7 no such information shall be available for public inspection.

8 5. All records, except those to be returned by the Board pursuant to subsection 4 above
9 or those that the Board is authorized to close to the general public under the
10 provisions of R.S.Mo. Ch. 610, shall be open to public inspection and copying during
11 normal working hours, unless otherwise provided by law. Fees for search and
12 duplication of public records shall not exceed the actual cost of document search and
13 duplication. Any documents may be furnished without charge or at a reduced charge
14 when the code official determines that waiver or reduction of the fee is in the public
15 interest because it is likely to contribute significantly to public understanding of the
16 operations or activities of the Board and is not primarily in the commercial interest of
17 the requester. Each request for access to a public record shall be acted upon as soon
18 as possible, but in no event later than the end of the third business day following the
19 date the request is received by the code official. If access to the public record is not
20 granted immediately, the code official shall give a determined explanation of the
21 cause for further delay and the place and earliest time and date that the record will be
22 available for inspection. This period for document production may exceed three days

1 for reasonable cause.

2 6. The Board shall order the inspection of any mechanical system whenever deemed
3 necessary for the public's safety.

4 7. The Board shall consider and approve any apprentice training program provided that
5 any such apprentice training program requires a minimum of 7,500 hours of
6 combined on-the-job and classroom training, if it provides an equivalent training
7 program to those certified by the Bureau of Apprenticeship and Training of the U.S.
8 Department of Labor "BAT" (now known as the Office of Apprenticeship Training,
9 Employer and Labor Services ("ATELS")) or to those approved, accredited or
10 certified, as applicable, by any of the other organizations listed in subsection 112.7.1
11 below. In addition, the Board shall consider and approve any educational or training
12 program or class covering any work that requires a license under this Section, if such
13 program or class is equivalent to one that is offered by a school or organization that is
14 approved, accredited, or certified, as applicable, by one of the organizations listed in
15 subsection 112.7.1 below.

16 8. The Board shall approve and designate those independent, third-party agencies
17 authorized to give and administer examinations for licensure pursuant to this code.

18 The written examination required by this Section 112 shall be given and administered
19 by independent, third-party testing agencies approved by the Board.

20 **112.7 Contractor, Journeyman, and Apprentice License Issuance.** The Board shall
21 instruct the Mechanical Equipment Inspection Section to issue a license as a contractor,
22 journeyman, or apprentice, as applicable (and within the categories of Mechanical

1 Contractor, Sheet Metal Contractor, HVAC Servicer-Installer Contractor, Pipefitter
2 Journeyman, Sheet Metal Journeyman, HVAC Service-Installer Journeyman, Pipefitter
3 Apprentice, Sheet Metal Apprentice, or HVAC Servicer-Installer Apprentice, as applicable),
4 upon payment of the required license fees to any person or Entity who satisfies the following
5 criteria for issuance of the applicable license.

6 **112.7.1 Apprenticeship License.** Applicants shall be issued an apprenticeship license
7 promptly upon submission to the Board of a complete application together with:

8 1. Proof of enrollment in:

9 A. an applicable apprenticeship program certified by the Bureau of
10 Apprenticeship and Training of the United States Department of Labor
11 (BAT/ATELS); or

12 B. a Board approved equivalent apprenticeship program that includes
13 classroom/laboratory training by Ranken Technical College, Vatterott
14 Educational Center, Jefferson College, Southwest Illinois College, or by
15 any other school or organization approved, accredited, or certified, as
16 applicable, by:

17 I. the Higher Learning Commission, a Commission of the North
18 Central Association of Colleges and Schools;

19 II. the Accrediting Commission of Career Schools and Colleges of
20 Technology; or

21 III. the National Center for Construction Education and Research; or

22 C. an applicable, integrated 7,500 hour combined classroom and field training

1 apprenticeship program that is conducted by any school or organization
2 approved, accredited, or certified, as applicable, by:

3 I. the Higher Learning Commission, a Commission of the North
4 Central Association of Colleges and Schools; or

5 II. the Accrediting Commission of Career Schools and Colleges of
6 Technology; or

7 III. the National Center for Construction Education and Research;

8 NOTE: As used in this Section an HVAC Servicer-Installer Apprenticeship Program
9 includes but is not limited to:

10 1. Any program certified by BAT/ATELS as a Mechanical Servicer-Installer
11 Apprenticeship Program, or

12 2. Presentation by the applicant or any Entity or organization of a written, individual
13 training program providing a total of 7,500 combined hours of educational
14 training or classes and field work or on-the-job training obtained as follows:

15 A. at least 540 classroom hours of educational training or classes covering
16 work that requires a license under this Section (or certain exempt work as
17 allowed by the Note to this subsection below) that is conducted by any
18 combination of schools or other organizations approved, accredited, or
19 certified as applicable by:

20 I. the Higher Education Commission, a commission of the North
21 Central Association of Colleges and Schools; or

22 II. the Accrediting Commission of Career Schools and Colleges of

- 1 Technology; or
- 2 III. the National Center for Construction Education and Research; or
- 3 IV. the Board pursuant to subsection 112.6.7 above; and
- 4 B. the balance of the required hours needed to equal 7,500 through field work
- 5 or on-the-job training under the supervision and inspection of a journeyman
- 6 licensed under this Section to perform the work involved.

7 NOTE: Within the total 540 classroom hours presented as part of any individualized

8 training program pursuant to this subsection above, the individual program must contain

9 a minimum of 480 hours technical instruction in the installation, alteration,

10 reconstruction, repair, replacement, or servicing of HVAC Systems, HVAC Duct

11 Systems, HVAC Piping Systems, or Process Piping Systems, as applicable, based on the

12 Apprenticeship license sought by the applicant and within these 480 hours:

- 13 1. no more than 75 hours may be introductory level courses; and
- 14 2. with respect to individuals seeking a Pipefitter or Sheet Metal license, no more
- 15 than 75 hours may relate to technical training on work that is exempt from
- 16 licensure under this code. All technical training on work that is exempt from
- 17 licensure under this code shall be counted, without limitation, to the full extent
- 18 required by subsection 112.7.2 below. Individuals seeking an HVAC Servicer-
- 19 Installer license shall have no limitation on the number of course hours that
- 20 relates to work that is exempt from licensure under this code.

21 **112.7.1.1.** Upon determination by the Board that the applicant has satisfied the

22 requirements of this subsection, the Mechanical Equipment Inspection Section shall

1 issue an apprenticeship license to the applicant with “Pipefitting Apprentice, Sheet
2 Metal Apprentice or HVAC Service-Installer Apprentice” plainly marked on it
3 (which determination shall be based on the nature of the program or class in which
4 the applicant has enrolled or has completed), and the apprentice’s name and date of
5 issue.

6 **112.7.2 Journeyman License.** Applicants shall be issued a journeyman license promptly
7 upon submission of a complete application to the Board together with:

8 1. proof of:

9 A. a total of 7,500 hours of training or experience obtained through:

10 I. the successful completion of a Pipefitter, Sheet Metal, or HVAC
11 Servicer-Installer apprenticeship program conducted by any school
12 or organization approved, accredited, or certified, as applicable, as
13 required by Section 112; or

14 II. ompletion of at least 540 hours of educational or training classes,
15 plus 6,960 hours of field work or on-the-job training under the
16 supervision and inspection of a journeyman licensed under this
17 code to perform the work involved, pursuant to an individual
18 training program as allowed by Section 112; or

19 B. 7,500 hours of:

20 I. HVAC Servicer-Installer Work, which may include all work on
21 HVAC Systems that are exempt from license for an HVAC
22 Servicer-Installer Journeyman license,

- 1 II. Process Piping System Work for a Pipefitter Journeyman license, or
- 2 III. HVAC Duct System Work for a Sheet Metal Journeyman license.

3 **Notes:**

- 4 **a.** In determining whether an applicant has acquired sufficient experience to
- 5 qualify for a Pipefitter, Sheet Metal, or HVAC Servicer-Installer
- 6 Journeyman’s license, the Board shall include all of the applicant’s
- 7 experience, as applicable, based on the type of journeyman license sought by
- 8 the applicant, obtained while installing, constructing, altering, repairing,
- 9 replacing, or servicing Process Piping Systems, HVAC Duct Systems, HVAC
- 10 Piping Systems, or HVAC Systems, as applicable, except for work that is
- 11 exempt from licensure under this code. All work that is exempt from
- 12 licensure under this code shall be counted without limitation, provided the
- 13 work is of a similar nature and technical requirements as work that requires a
- 14 license under this Section. All experience shall be considered by the Board
- 15 regardless whether the work was performed in the City of Saint Louis or
- 16 elsewhere.

- 17 **b.** For the purposes of determining whether an applicant for a journeyman
- 18 license has completed 540 or more hours of educational or training classes
- 19 pursuant to an individual training program as described in this subsection, the
- 20 following shall apply: for each class successfully completed by the applicant,
- 21 pursuant to the grading system used by the school or organization conducting
- 22 the class, the applicant shall receive the total number of hours indicated by

1 the school or organization as applying to the work for which the applicant
2 seeks a license (a syllabus, a transcript or grade sheet, or a letter from any
3 dean or equivalent administrator at the school or organization will satisfy this
4 requirement).

5 **112.7.2.1.** Upon determination by the Board that the applicant has satisfied the above
6 requirements and falls within one of the exceptions set forth in this Section 112, the
7 Secretary shall issue the journeyman license. Upon determination by the Board that
8 the applicant has satisfied the above requirements and does not fall within one of the
9 exceptions set forth in this Section 112, the Secretary shall give the applicant a
10 written notice of the date and place of the examination. The cost of the
11 examination(s) shall be paid by the applicant. If the applicant fails to pass the
12 examination, the applicant shall not be permitted to re-take the examination for a
13 period of three months. If the applicant fails to pass the examination a second time,
14 the applicant shall not be permitted to re-take the examination for a period of one
15 year and the applicant shall resubmit a new application and a new application fee. If
16 the applicant passes the examination, a journeyman license shall be issued.

17 **112.7.2.2.** Effective 60 days after approval of this Ordinance by the Mayor, all
18 licensed journeyman seeking renewal shall furnish proof of twelve professional
19 education units (24 hours) received within the last three years on the then current
20 Mechanical Code or accepted practices in the performance of work covered by the
21 then current Mechanical Code or equivalent proof of maintaining and improving

1 Journeyman work skills as determined and approved by the Board. Said proof shall
2 be provided at the time of renewal. There may be a carryover of four professional
3 education units (8 hours) in excess of the required hours to the next license cycle.
4 Satisfactory completion of the professional education units administered pursuant to
5 the St. Louis County Mechanical Code shall constitute satisfactory completion under
6 this Section.

7 **112.7.2.3.** There shall be no limitation as to the type or number of journeyman
8 licenses that can be obtained by an individual.

9 **112.7.2.4.** Notwithstanding any language of this section to the contrary, any person
10 who possesses a current valid journeyman license issued by the City of Saint Louis
11 shall not be required to acquire any additional experience or training prior to being
12 allowed to take the examination for any other journeyman's license provided for
13 under this section. Upon submission to the Board of a completed application by a
14 person licensed under this section as journeyman (which application shall not require
15 any proof of the applicant's experience or training) and a \$45.00 registration fee, such
16 person shall be permitted to take the examination for an additional journeyman's
17 license and, upon passage of such examination, shall promptly be issued a
18 journeyman's license in the trade covered by the examination so passed.

19 **112.7.3 Mechanical Contractor, Sheet Metal Contractor, Contractor License.** Any
20 entity which has in its employ one or more individuals having any of the following
21 qualifications may submit an application for a Contractor's License:

- 1 1. a minimum of three years verifiable training or experience directing and
2 supervising at least one journeyman; or
- 3 2. a degree in civil or mechanical engineering from an accredited college and a
4 minimum of one year verifiable training or experience directing and supervising
5 at least one journeyman; or
- 6 3. a license for at least three years under the Plumbing Code or Saint Louis County
7 as a Master Plumber or Master Pipefitter and a minimum of one year verifiable
8 training or experience directing and supervising at least one journeyman.

9 **Exception:** An HVAC Servicer-Installer Journeyman who is the sole
10 proprietor of a company which employs no other journeyman labor that is
11 required to be licensed by the provisions of this section may obtain a HVAC
12 Servicer-Installer Contractor's License without employing an individual
13 experienced in directing and supervising journeyman.

14 The application shall be accompanied by proof of the qualifications of the individual
15 or individuals with the foregoing training or experience and proof of the journeyman's
16 license.

17 The Secretary will present the complete Contractor's application to the Board for
18 action in accordance with the provisions of this Section above. Upon determination that
19 the applicant has satisfied the requirements of this Section, a license shall be issued.

20 The Contractor's License shall be valid for three years form the date of issue. The
21 Secretary of the Board shall send a notice of renewal to the last-known address of the
22 contractor and a thirty day grace period after the expiration shall be given in which

1 renewal shall be given without re-qualification. Failure of the Secretary to provide
2 renewal notice shall not excuse the licensee from filing for the renewal license prior to
3 the expiration of the grace period.

4 The contractor shall notify the Mechanical Equipment Inspection Section within ten
5 days of it no longer employing a supervisor who possesses the qualifications set forth
6 herein.

7 There shall be no limitation as to the type or number of contractor's licenses that an
8 individual or entity can obtain so long as the applicant satisfies the requirements for each
9 license.

10 **112.7.4 Examination and Re-Examination.** Except as set forth in this Section below,
11 all individuals desiring to be licensed as a journeyman under this Section must
12 successfully pass an examination in order to qualify as same.

13 **Exception:** In determining whether a person qualifies to obtain a license without an
14 examination under the foregoing exceptions, the Board shall consider all of an
15 applicant's sheet metal experience, pipefitting experience, or HVAC system work
16 experience obtained while installing, constructing, altering, repairing, replacing, or
17 servicing HVAC Systems during the most recent 12 years, except for work that is
18 exempt from licensure under this code. All work that is exempt from licensure under
19 this code shall be counted without limitation provided the work is of similar nature
20 and technical requirements as work that requires a license under this Section.

21 **Note:** In determining the extent to which the work experience of an applicant for a
22 Journeyman License is exempt or non-exempt under the exceptions to testing, the Board

1 shall only consider the extent to which the nature of the work itself is exempt or non-
2 exempt work regardless of whether such work was performed while an employee of a
3 contractor, owner, lessee, or other entity.

4 **112.7.5 Temporary Project Licenses.** A temporary license shall be issued to a
5 journeyman for up to six months upon submittal to the Secretary of the Board of the
6 name and location of the project and the name of the licensed Mechanical Contractor,
7 Sheet Metal Contractor, or HVAC Servicer-Installer Contractor for such project provided
8 the Board first finds that issuance of said temporary license will not compromise the
9 public safety of residents of the City of Saint Louis. The temporary license may be
10 renewed upon application and proof of employment by a licensed contractor.

11 **112.7.6 Reciprocity.** The Mechanical Equipment Inspection Section shall issue a license
12 as a contractor, journeyman, or apprentice, as applicable (and within the categories of
13 Mechanical Contractor, Sheet Metal Contractor, HVAC Servicer-Installer Contractor,
14 Pipefitter Journeyman, Sheet Metal Journeyman, HVAC Servicer-Installer Journeyman,
15 Pipefitter Apprentice, Sheet Metal Apprentice, or HVAC Servicer-Installer Apprentice,
16 as applicable), upon payment of the required license fees (without any further action and
17 without the requirement of a Board meeting) to any person or Entity who can show proof
18 of a current and valid license issued by Saint Louis County pursuant to Saint Louis
19 County, Missouri Ordinance 22,313, provided that the reciprocal issuance of such
20 licenses shall cease if and when the criteria for issuance of a license under St. Louis
21 County Ordinance 22.313 are changed such that such criteria are less stringent than those

1 established in this section.

2 **Exception:** Any contractor that does not have a city licensed journeyman in their
3 employment shall not be issued a contractor license under reciprocity.

4 **112.8 License Applications and Fees.** Each request for a license under this code shall be on
5 an application form provided by the Mechanical Section. The license fees for each license
6 category shall be as set out in Table 112.8. Licenses shall be valid for the duration set forth
7 below, or in the case of an initial license issued to a person or entity holding a St. Louis
8 County license, for the then unexpired term of the St. Louis County license. The fee for any
9 such initial license shall not be prorated. Thereafter, licenses shall be renewed prior to the
10 expiration period noted below. In the event payment of the required renewal fee is not made
11 within 30 days after the application expiration date of the license, then the license shall be
12 deemed expired and the license holder shall not be permitted to perform work requiring a
13 valid license under this code until the license is reinstated. Licenses that expire because of
14 non-payment of the required renewal fee shall be reinstated automatically upon payment of
15 the fee provided the fee is paid within 120 days of the expiration of the license.

16 Thereafter, expired licenses can be reinstated by the Board for good cause, absent which
17 the license holder must re-apply for and satisfy the standards for issuance of a new license.
18 There shall be a notice of renewal sent to last known address of the contractor or
19 journeyman.

Table 112.8
MECHANICAL LICENSE FEES

Item	Fee
Contractor license	\$ 100.00 for a 3 year license
Journeyman license	\$ 45.00 for a 3 year license
Apprentice license	\$ 10.00

1 **112.9 Manufacturer and Manufacturer’s Representative Restricted License.** A
2 restricted license shall be issued under this Section to any manufacturer or manufacturer’s
3 representative and their employees engaged in the supply of equipment and appliances
4 covered by this Section or in the supply of parts or the performance of service work, repairs,
5 maintenance, start-up, testing, or tuning of such equipment and appliances. Such license
6 shall be issued by the Board upon submission by the applicant of evidence that the applicant
7 is a manufacturer of, or has a representative relationship with one or more manufacturers of,
8 equipment or appliances covered by this section and payment of a \$45.00 license fee.

9 Upon such submission, the Secretary shall issue a license in the name of the applicant,
10 identifying the equipment or appliance manufacturers with respect to which the license is
11 issued. Such license shall authorize the licensee and its employees to supply parts and
12 perform service work, repairs, maintenance, start up, testing, or tuning of any equipment or
13 appliances which are supplied by the manufacturers listed on the license. There shall be no
14 restriction on the number of such licenses that are issued to anyone person or entity. Each
15 such license shall be valid for as long as the licensee remains a manufacturer or a
16 manufacturer’s representative of the equipment or appliance manufacturers listed in the
17 license. Notwithstanding the foregoing, however, no license shall be required for any
18 manufacturer, manufacturer’s representative, or their employees to perform work exempted

1 from the requirement for a license pursuant to Section 112.13 below or to perform
2 emergency repair work on any equipment or appliance supplied or represented by the
3 manufacturer or manufacturer's representative.

4 **112.10 Holder of Certificate of Authority from ASME or National Board of Boiler and**
5 **Pressure Vessel Inspectors.** Any entity which holds appropriate ASME Certificate of
6 Authority with extension to field work or an "R" Certificate of Authority issued by the
7 National board of Boiler and Pressure Vessel Inspectors shall be authorized to engage in the
8 repair and alteration of boilers, steam generators, and pressure vessels which are covered by
9 this code. Any such entity holding such Certificate of Authority shall be authorized to
10 perform the aforesaid work and shall be issued a license hereunder as a Contractor, provided
11 that such entity shall pay a registration fee of \$45.00 and file with the Secretary of the Board
12 a copy of its Certificate or Certificates of Authority and proof of insurance as specified in
13 Section 112.11.

14 **112.11 Certificate of Insurance.** Contractors shall submit a copy of a Certificate of
15 Insurance for combined \$1,000,000.00 minimum limits liability insurance for bodily injury
16 and property damage to the Mechanical Section on or before January 15th of each year. The
17 certificate shall state the insurance company's name, address, telephone number, kind of
18 insurance, coverage, and policy number. Permits will not be issued to contractors who fail to
19 file a Certificate of Insurance with the Mechanical Section annually or whose insurance has
20 lapsed.

21 **112.12 License Exemptions.** The following work shall not require a license under this

1 Section:

- 2 1. Work performed on an owner's own facility by personnel directly in the employment
3 of the owner of the facility or a business affiliate of such owner. For purposes of this
4 exemption, a "business affiliate" shall mean any parent, subsidiary, or sister
5 corporation of the owner and any other corporation, partnership, limited liability
6 company, or joint venture in which the owner or its parent, subsidiary, or sister
7 company has an ownership interest.
- 8 2. Installation, repair, and replacement of portable heating, cooling, and refrigeration
9 equipment. (Portable equipment is not permanently installed into or onto a structure
10 or premises; not directly wired or piped; not connected to duct work; and does not
11 require the venting of combustible products).
- 12 3. Installation, repair, and replacement of domestic stoves, ranges, dryers, and other
13 domestic appliances.
- 14 4. Work for a public utility regulated by the Missouri Public Service Commission.
- 15 5. System installation, start-up, warranty service, or warranty repair work that is
16 performed on specialty equipment or appliances by a factory trained technician and
17 certified by the manufacturer of that system to perform such work. Common HVAC
18 systems and common piping system installations do not apply for this license
19 exemption.
- 20 6. Work historically and traditionally performed by boiler makers except for repair and
21 alteration of boilers, steam generators, and pressure vessels with respect to which the
22 provisions of Section 112.10 shall apply.

- 1 7. Installation, repair, and replacement of elevators, escalators, dumbwaiters, moving
2 walks, hoists, automotive lifts, conveyors, freight lifts, and manlifts.
- 3 8. Work which does not require a permit under the provisions of this code.
- 4 9. Receiving, unloading, moving, and storing of machinery and related equipment.
- 5 10. Fabrication and installation of process ducts and process sheet metal blow pipe
6 systems.
- 7 11. Any refrigeration work involving less than 1 ~ ton of refrigeration including but not
8 limited to such work on reach-in coolers, walk-in coolers, water coolers, beverage
9 and beer dispensing machines and related equipment, beverage coolers, soda
10 carbonated systems, reach-in freezers, and walk-in freezers. In those cases where any
11 refrigeration system is composed of several individual but connected units or split
12 systems, each such individual unit or split system shall be considered a separate unit
13 or system for purposes of this exemption.
- 14 12. Minor repairs or replacements to any existing equipment or systems that are part of a
15 commercial, industrial, manufacturing, or process facility including but not limited to
16 ordinary repairs for the purpose of maintenance and service of equipment and
17 systems; the repair or replacement of any minor part of a piece of equipment
18 provided such repair does not alter the approval of the equipment or system; the
19 replacement of piping within the heating and cooling equipment; replacement of
20 leaking or defective valves, fittings, or connections of system components; changing
21 of belts, parts, filters, or similar items; lubrication of equipment; testing and
22 balancing of equipment and systems; and similar service work.

1 Add Section 113 to read as follows:

2 **SECTION 113**

3 **BOARD OF EXAMINERS FOR SPRINKLER SYSTEM CONTRACTORS**

4 **113.1 General.** There is hereby established a Board of Examiners for Sprinkler System
5 Contractors, hereinafter referred to as “the board.” The board shall act in an advisory
6 capacity to the code official in the preparation of rules and regulations regarding the
7 installation, inspection, and maintenance of fire suppression systems consistent with the
8 provisions of this code and the Building and Fire Codes.

9 **113.1.1 Composition of the board.** The Board of Examiners for Sprinkler System
10 Contractors shall consist of five members: the Building Commissioner or duly authorized
11 representative, the fire official or duly authorized representative, and three members
12 appointed by the Mayor.

13 The Mayor shall appoint one licensed employing sprinkler contractor, one registered
14 professional engineer with experience in fire suppression sprinkler system design, and
15 one licensed journeyman sprinkler fitter each of whom shall be a resident of the City of
16 Saint Louis and shall have been actively engaged at the trade or business of sprinkler
17 systems for five years in the Saint Louis metropolitan area. If no city resident is available
18 to sit on the Board, a St. Louis County resident may fill in with the approval of the
19 Mayor's Office. Once a qualified City resident is available the County resident may be
20 replaced.

1 **113.1.2 Term of office; compensation.** The appointed members of the board shall serve
2 a term of four years or until their successors are appointed. Appointed members shall be
3 compensated for services rendered on a per meeting basis as established by ordinance and
4 subject to budgeted funds availability.

5 **113.1.3 Meetings.** Three members of the board in attendance shall constitute a quorum.
6 An affirmative vote of three board members is necessary for the approval of any motion.
7 The board shall elect one of its members to be the chairman. Suitable quarters for the use
8 of the board shall be provided by the Building Division.

9 **113.2 Powers and duties of the board.** It shall be the duty of the board to meet as often as
10 necessary to hear and determine any charges or complaints which may be lawfully made
11 against any licensed sprinkler contractor or licensed journeyman sprinkler fitter, approve
12 applications, and transact any other lawful business of the board. Meetings may be held at
13 the request of the chairman of the board.

14 1. Administration. The board shall receive applications and after review they shall
15 approve or deny them based on Sections 113.4, 113.5, or 113.6.

16 2. Test. The board shall prescribe the administration, form, and content of tests for
17 journeyman sprinkler fitters and sprinkler fitter contractors and the form and content
18 of licenses as described herein. The passing grade for each test shall be 75% or
19 better.

20 3. Complaints. All complaints by citizens concerning sprinkler fitting procedures or
21 rules and regulations shall be made to the board in writing. After a thorough

1 investigation, the board shall respond in writing to each complaint.

2 4. Rule making authority. The board shall request from the code official to adopt policy
3 memo changes in accordance with Section 104.1.4 of this code.

4 5. Inspection. The board shall order the inspection of any sprinkler system whenever
5 deemed necessary for the public safety.

6 6. Revocation/Suspension of Licenses. After investigation and hearings in accordance
7 with Section 113.9, the board may revoke or suspend any license that it has issued.

8 7. Licensing and registration. The board shall, pursuant to the regulations and standards
9 herein set forth, determine the qualifications of and provide for the examining,
10 licensing, registration, or certification of applicants who meet the qualifications and
11 successfully pass the appropriate examinations, if required, under this code.
12 Evidence of license shall be provided to those who meet the qualifications and
13 successfully pass the appropriate examination or successfully meet all requirements
14 of renewal of the license. This evidence of license shall remain the property of the
15 City of Saint Louis and shall be surrendered immediately when demanded under
16 conditions listed elsewhere in this section.

17 **113.3 Secretary of the board; duties.** The code official shall appoint a Secretary to the
18 Board of Examiners for Sprinkler System Contractors. The secretary shall be non-voting. It
19 shall be the duty of the secretary to:

20 1. Keep full and complete records of the proceedings of the board;

21 2. Keep a file of the name, residence, and place of business of every licensed person
22 engaged in or working at the business of sprinkler fitting in the City of Saint Louis

1 (these records shall be updated within ninety days of the renewal period stated in
2 Section 113.8);

3 3. Give all applicants for examination a written notice of the date and place of
4 examination. The secretary shall give the applicant an informational letter on
5 examination procedures with an outline of suggested study for the examination
6 applied for;

7 4. Return all incomplete applications to the applicants.

8 All records shall be open to supervised public inspection during normal working hours,
9 subject to staff availability. Test questions and answers shall not be open to the public.

10 **113.4 License as a sprinkler contractor.** An applicant shall successfully complete all of the
11 following requirements in order to receive a license as a sprinkler contractor:

12 1. Applicant shall complete application provided by the Mechanical Section.

13 2. Applicant shall have served a five year apprenticeship and have five years of
14 experience as a certified sprinkler fitter or the applicant shall have ten years of
15 experience as a certified sprinkler fitter. (Five years of experience consists of a
16 minimum of 8,500 working hours with a maximum of 1,700 working hours
17 considered for any one year.) Equivalent training and experience shall also be
18 considered. Equivalent training and experience shall mean a degree in engineering
19 from an accredited university in which the applicant shall have received training in
20 the design of sprinkler systems, planning and installation of same, and has had three
21 years of experience in the design, planning, and installation of sprinkler systems and
22 must be a registered professional engineer licensed to practice in the State of

- 1 Missouri.
- 2 3. Applicant's credentials shall be reviewed by the board as to qualifications and
3 experience. The applicant shall provide proof of knowledge, training, and experience
4 through transcripts from educational institutions, apprenticeship agreements,
5 reference letters from employers, and other documents as requested by the board.
- 6 4. The secretary of the board shall arrange a testing date with the approved applicant.
7 The secretary shall also give the applicant an informational letter on the examination
8 procedures with an outline of suggested study for the examination. The applicant
9 shall schedule the test within ninety days of approval. The applicant is responsible
10 for all testing fees.
- 11 5. Applicants shall successfully complete the written examination and receive a passing
12 grade on all parts of the examination.
- 13 6. Applicant shall be notified in writing by the secretary of the board of the examination
14 results. Applicants who pass shall be notified to come to the Mechanical Section and
15 obtain their license. Applicants that have failed the examination for the first time
16 shall be notified that they may schedule a re-take of the examination after ninety
17 days. Applicants that have failed the examination for a second time shall be notified
18 that they may schedule a re-take of the examination after an additional 180 days.
19 Applicants that have failed the examination for a third time shall wait a minimum of
20 twelve months before re-application and re-testing. The applicant is responsible for
21 all application and testing fees.
- 22 7. Successful applicants shall bring a certificate of liability insurance for bodily injury

1 and property damage in the amount of at least one million dollars naming the
2 applicant as an additionally insured and the license fee required by Table 113.7 to the
3 Mechanical Section in order to be issued a license as a sprinkler contractor.

4 **113.5 License as a journeyman sprinkler fitter.** An applicant shall successfully complete
5 all of the following requirements in order to receive a license as a journeyman sprinkler
6 fitter:

- 7 1. Applicant shall complete application provided by the Mechanical Section.
- 8 2. Applicant shall have a minimum of five years of experience as an apprentice in the
9 installation of sprinkler systems under the direct personal and immediate supervision
10 of a licensed journeyman sprinkler fitter or licensed sprinkler contractor in the City of
11 Saint Louis, or have a license issued by another licensing authority in another
12 jurisdiction, or equivalent training and experience prior to the date of the
13 examination. (Five years of experience consists of a minimum of 8,500 hours with a
14 maximum of 2,000 working hours considered for any one year.) The applicant shall
15 receive a one year credit toward their five year apprenticeship training when
16 presenting a certificate of completion from a trade or technical school recognized by
17 the board.
- 18 3. The applicant shall provide proof of knowledge, training, and experience through
19 transcripts from educational institutions, apprenticeship agreements, letters of
20 reference from employers, and any other documents requested by the board.
- 21 4. Applicant's qualifications shall be reviewed by the board for approval to take the
22 written examination.

- 1 5. The secretary of the board shall arrange a testing date with the approved applicant.
2 The secretary shall also give the applicant an informational letter on the examination
3 procedures with an outline of suggested study for the examination. The applicant
4 shall schedule the test within ninety days of approval. The applicant is responsible
5 for all testing fees.
- 6 6. Applicant shall successfully complete the written examination and receive a passing
7 grade on all parts of the examination.
- 8 7. Applicant shall be notified in writing by the secretary of the board of the examination
9 results. Applicants who pass shall be notified to come to the Mechanical Section and
10 obtain their license. Applicants that have failed the examination for the first time
11 shall be notified that they may schedule a re-take of the examination after ninety
12 days. Applicants that have failed the examination for a second time shall be notified
13 that they may schedule a re-take of the examination after an additional 180 days.
14 Applicants that have failed the examination for a third time shall wait a minimum of
15 twelve months before re-application and re-testing. The applicant is responsible for
16 all application and testing fees.
- 17 8. Successful applicants shall bring the license fee required by Table 113.7 to the
18 Mechanical Section in order to be issued a license as a journeyman sprinkler fitter.

19 **113.6 Registration as an apprentice sprinkler fitter.** Every applicant learning the business
20 or trade of sprinkler fitting within the City of Saint Louis shall be registered by the board and
21 shall receive a registration from the board with “Apprentice” plainly marked on it, the name
22 of the applicant, and the date issued. The registration fee for an apprentice shall be as

1 prescribed in Table 113.7 and the registration will be issued for a five year period.

2 The apprentice's employer shall furnish a notarized letter to the board naming all
3 journeyman sprinkler fitters and all apprentice sprinkler fitters in their employ.

4 An apprentice who is undergoing an apprenticeship or course of training for the purpose
5 of learning the trade of sprinkler fitting shall perform no work regulated by this code or its
6 amendments except as an assistant under the direct personal and immediate supervision of a
7 journeyman sprinkler fitter or sprinkler contractor licensed under the terms and provisions of
8 this code.

9 The apprentice registration shall not be renewed. Upon written application, the
10 apprentice's registration shall be allowed to be extended for a maximum of six months if the
11 apprentice has been approved to take the journeyman sprinkler fitter examination as
12 prescribed in Section 113.5. It shall be mandatory for an apprentice sprinkler fitter on the
13 completion of their five-year training period to make application for the journeyman
14 sprinkler fitter's examination.

15 **113.7 Fees.** Fees for Sprinkler Contractor Licenses, Journeyman Sprinkler Fitter Licenses,
16 and Apprentice Sprinkler Fitter Registrations shall be as set forth in Table 113.7.
17 Application fees for Sprinkler Contractor and Journeyman Sprinkler Fitter Licenses and
18 Registration fees for Apprentice Sprinkler Fitters shall be due at time of application. License
19 Fees shall be due upon issuance of licenses. Application fees shall not be refunded in the
20 event that the applicant fails to complete the requirements for licensing as set forth in
21 Sections 113.4 and 113.5.

TABLE 113.7
LICENSE FEES – BOARD OF EXAMINERS FOR SPRINKLER SYSTEM CONTRACTORS

Item	Fee	Duration	Remarks
Sprinkler Contractor License	\$ 100.00	3 years	Section 113.4
Journeyman Sprinkler Fitter License	\$ 45.00	3 years	Section 113.8
Apprentice Sprinkler Fitter Registration	\$ 10.00	5 years	Section 113.6

1 **113.7.1 Licenses obtained between renewal dates.** Any new license issued more than
2 thirty days prior to the renewal date shall expire on the renewal date. Fees for licensees
3 shall be prorated as shown in Table 113.7.

4 **113.8 Renewal date of licenses.** The renewal of all licenses for Sprinkler Contractors and
5 Journeyman Sprinkler Fitters shall be due three years after the date issued. Licenses shall be
6 renewed up to sixty days prior to but not more than thirty days after the license, registration,
7 or certification expires. Following the grace period, any sprinkler contractor or journeyman
8 sprinkler fitter who has not renewed shall be required to re-apply and re-test in order to
9 obtain a new license at the discretion of the board.

10 **113.8.1 Failure of sprinkler contractor to renew.** The failure of any sprinkler
11 contractor to renew their license during the grace period shall terminate their license and
12 no permit for doing work under this code or any other ordinance of the City of Saint
13 Louis shall be issued to them until after they have obtained a new license following re-
14 application and re-testing (if necessary) and they shall be disqualified from carrying on
15 any work authorized to be done under any permit theretofore issued to them or any job
16 unfinished at the date of termination of their license.

17 **113.9 Suspension or revocation of licenses.** Upon receipt of a written complaint to the

1 board filed by the Building Commissioner or any aggrieved person, or upon the board's own
2 motion, the board shall make an investigation when it may deem necessary and shall conduct
3 a hearing upon such complaint.

4 **113.9.1 Cause for suspension or revocation.** The following offenses shall be cause for
5 a hearing on a sprinkler contractor's or journeyman sprinkler fitter's license:

- 6 1. The license holder has obtained a license by fraud or misrepresentation;
- 7 2. The license holder has intentionally violated any of the provisions of this code or
8 of the Building or Fire Codes;
- 9 3. The license holder is found to be negligent, unskilled, or unfaithful in their work
10 or found to be unfit, incompetent, or untrustworthy in the work of sprinkler
11 fitting;
- 12 4. The license holder has intentionally employed an unlicensed person to perform
13 sprinkler fitting work covered by this code;
- 14 5. The license holder has directed apprentices to work without the supervision of a
15 licensed journeyman sprinkler fitter;
- 16 6. The license holder has obtained permits for individuals who are not in their
17 employ or under their supervision;
- 18 7. The license holder is the subject of disciplinary action by another jurisdiction
19 upon grounds for which suspension or revocation is authorized in this code.

20 **113.9.2 Notice of hearing.** Within thirty calendar days after the filing of a written
21 complaint at the board meeting, a notice of hearing shall be sent to the license holder.

1 The notice shall be served to the last known address by certified mail, return receipt
2 requested, at least ten days prior to any scheduled hearing and shall include:

- 3 1. A statement of the time, place, and nature of the hearing;
- 4 2. A reference to the particular section(s) of the code and rules involved;
- 5 3. A short, plain statement of the complaint and a statement of the issues before the
6 board;
- 7 4. A statement that the nature of the proceeding before the board will be a formal
8 inquiry into the complaint, at which time an opportunity will be afforded the
9 individual or contractor to respond to the allegations in the complaint by their
10 testimony, the testimony of witnesses, or by documentary evidence;
- 11 5. A statement that the journeyman sprinkler fitter or sprinkler contractor has a right
12 to be represented by legal counsel; and
- 13 6. A statement that based upon the evidence presented at the hearing, the board may
14 suspend or revoke the apprentice's, journeyman sprinkler fitter's, or sprinkler
15 contractor's license.

16 **113.9.3 Determining vote.** A decision to suspend or revoke an apprentice's, journeyman
17 sprinkler fitter's, or sprinkler contractor's license shall require the concurring vote of at
18 least three members of the board.

19 **113.9.4 Decision of the board.** All rulings or decisions of the board shall become final
20 and binding upon all parties thereto unless appealed to the Board of Building Appeals as
21 provided for in the Building Code. Upon suspension or revocation, a license holder shall

1 surrender the license at the close of the hearing.

2 **113.9.5 Enforcement stayed.** Upon an appeal of a decision of this board to the Board of
3 Building Appeals, enforcement of any ruling or decision by this board shall be stayed
4 until the Board of Building Appeals has rendered its decision.

5 **113.9.6 Reinstatement of license.** A revoked license or registration may be reinstated
6 by order of the board only upon application and examination, if required by the board,
7 and in the same manner as provided for hereunder for new applicants.

8 **113.10 Hardship clause.** In the event of a loss of a Master Licensee to a company
9 employing tradesmen licensed in the City of Saint Louis through no fault of that company, a
10 licensed Journeyman of the trade of the absent Master Licensee who shall be a full time
11 employee of that company shall be designated as an Interim Master after meeting all bonding
12 and insurance requirements. That company may operate under an Interim Master who shall
13 have the same rights, responsibilities, and standing of a Master in that trade for a period of
14 not more than one year from the date of the hardship. The code official shall determine
15 judgment of fault.

16 Disagreement of judgment may be appealed to the board, which shall hold an emergency
17 hearing no later than fourteen calendar days following the date the appeal is received by the
18 secretary of the board. The decision of the board involving a hardship clause may be
19 appealed in the same manner as other decisions of the board. Additional appeals may be
20 made pursuant to the procedures in Section 109 of this code.

1 **CHAPTER 2 IS AMENDED AS FOLLOWS:**

2 Change Section 201.3 to read as follows:

3 **201.3 Terms defined in other codes.** Where terms are not defined in this code and are
4 defined in the Building, Electrical, Fire, Fuel Gas, or Plumbing Code, such terms shall have
5 meanings ascribed to them as in those codes.

6 Add the following definitions to Section 202:

7 **APPRENTICE.** Anyone who has been licensed pursuant to this code to perform work that
8 requires a license under the supervision and inspection of a journeyman in the employ of a
9 contractor in one of the following categories:

10 1. A Pipefitter Apprentice is anyone who has been licensed under this code to perform
11 process piping system work under the supervision and inspection of a Pipefitter
12 Journeyman.

13 2. A Sheet Metal Apprentice is anyone who has been licensed under this code to
14 perform HVAC duct system work under the supervision and inspection of a Sheet
15 Metal Journeyman.

16 3. An HVAC Servicer-Installer Apprentice is anyone who has been licensed under this
17 code to perform HVAC servicer-installer work under the supervision and inspection
18 of an HVAC Servicer-Installer Journeyman, Pipefitter Journeyman or Sheet Metal
19 Journeyman.

20 **BASE FLOOD ELEVATION.** A reference point determined in accordance with the

1 Building Code based on the depth or peak elevation of flooding including wave height which
2 has a 1 percent (100-year flood) or greater chance of occurring in any given year.

3 **BOARD.** The Board of Examiners for Mechanical Licensing of the City of Saint Louis.

4 **CONTRACTOR.** An individual or entity who is licensed under this code to perform work
5 on any or all of the following: process piping systems, HVAC duct systems, HVAC piping
6 systems, or HVAC systems.

7 **ENTITY.** Any company, corporation, partnership, joint venture, or other business
8 establishment which performs work that requires a license under this code.

9 **GANGWAY.** Area between two close structures generally used as but not limited to
10 passage between two houses in an urban setting.

11 **HVAC DUCT SYSTEM.** All or any part of the duct system for a heating, ventilation, or air
12 conditioning system regardless of the materials used, including ducts, duct fittings, risers,
13 stacks, dampers, casings, recess boxes, roof top unit curbs, radiator enclosures, exhausts,
14 ventilators, frames, grilles, louvers, registers, cabinets, plenums, air filters, fans, motors and
15 accessory air handling equipment, and appliances.

16 **HVAC DUCT SYSTEM WORK.** All work related to the installation, alteration,
17 reconstruction, repair, replacement, and other servicing of an HVAC Duct System as well as
18 HVAC Servicer-Installer work as defined herein.

19 **HVAC PIPING SYSTEM.** All or any part of the piping system a for heating, ventilation, or

1 air conditioning system including pipes, valves, pipe fittings, pumps, and distribution lines
2 and accessory equipment including boilers and compressor assemblies.

3 **HVAC PIPING SYSTEM WORK.** All work related to the installation, alteration,
4 reconstruction, repair, replacement, and other servicing of HVAC Piping Systems as well as
5 HVAC Servicer-Installer work as defined herein.

6 **HVAC SERVICER-INSTALLER CONTRACTOR.** An individual or entity licensed to
7 perform work under this code who employs at least one HVAC Servicer-Installer
8 Journeyman.

9 **HVAC SERVICE-INSTALLER CONTRACTOR.** A person licensed under this code
10 who may only pull permits for HVAC Servicer-Installer work as defined by Section 112.

11 **HVAC SERVICER-INSTALLER WORK.** All work related to te installation, alteration,
12 reconstruction, repair, replacement, and servicing of equipment of HVAC Systems:

- 13 1. that provides no more than 14 tons of air conditioning;
- 14 2. that provides no more than 300,000 BTU's of heating;
- 15 3. that operates at a pressure of less than 15 psi of steam;
- 16 4. that provides of no more than 5000 CFM of ventilation; and
- 17 5. that provides of no more than 5000 CFM of exhaust.

18 **HVAC SYSTEM.** A heating, ventilation, or air conditioning system or any part thereof
19 including an HVAC Piping System or HVAC Duct System specifically addressed and
20 regulated in this code.

1 **Note:** If an HVAC System consists of multiple individual units or split systems, each
2 such individual unit or split system shall be considered a separate system for purposes of
3 this Section.

4 **JOURNEYMAN.** Anyone who is licensed under this code to perform work under one of the
5 following categories.

- 6 1. A Pipefitter Journeyman is anyone who has been licensed under this code to perform
7 Process Piping System Work.
- 8 2. A Sheet Metal Journeyman is anyone who has been licensed under this code to
9 perform HVAC Duct System Work.
- 10 3. An HVAC Servicer-Installer Journeyman is anyone who has been licensed under this
11 code to perform HVAC Servicer-installer Work.

12 **MECHANICAL CONTRACTOR.** An individual or entity licensed to perform work under
13 this code who employs at least one Pipefitter Journeyman.

14 **PLUMBING CODE.** The plumbing code adopted by the City of Saint Louis.

15 **PORTABLE COOKING APPLIANCE.** A single, non-permanent electrical cooking
16 appliance (not attached with screws, clamps, or other fastening devices). A portable cooking
17 appliance shall be counter- or tabletop-mounted; shall be less than 2 feet (610 mm) in any
18 dimension; and shall weigh less than 100 pounds (454 kg). The owner or operator of a
19 portable cooking appliance shall be able to provide the Mechanical Inspection Section with
20 manufacturer's information documenting the above information. Fryers and cook tops that

1 may be used for frying shall not be used. Each occupancy shall be limited to the use of 2
2 such portable appliances. Microwave ovens shall not be included in this count.

3 **PORTABLE HVAC EQUIPMENT.** HVAC equipment that is not permanently installed
4 into or onto a structure or premises, not directly wired or piped, not connected to duct work,
5 and does not require the venting of combustion products.

6 **PROCESS PIPING SYSTEM.** All or any part of a piping system (excluding fire
7 suppression systems), which falls within one of the following categories:

- 8 1. A medical gas system.
- 9 2. An HVAC Piping System.
- 10 3. A pneumatic system.
- 11 4. A pressurized or vacuum piping system.
- 12 5. A fuel gas system.
- 13 6. An oxygen system.
- 14 7. A gasoline system not for public sale.

15 **PROCESS PIPING SYSTEM WORK.** All work related to the installation, alteration,
16 reconstruction, repair, replacement, and other servicing of process piping systems and shall
17 be installed by pipefitters or HVAC Servicer-Installers as defined in Section 112.

18 **SHEET METAL CONTRACTOR.** An individual or entity licensed to perform work
19 under this code who employs at least one Sheet Metal Journeyman.

20 **WORKMANLIKE.** Executed in a skilled manner, e.g., generally plumb, level, square, in

1 line, undamaged, and without marring adjacent work.

2 **CHAPTER 3 IS AMENDED AS FOLLOWS:**

3 Change Section 301.10 to read as follows:

4 **301.10 Electrical.** Electrical wiring controls and connections to equipment and appliances
5 regulated by this code shall be in accordance with the electrical code.

6 Add Section 301.10.1 to read as follows:

7 **301.10.1 Service disconnects.** Service disconnects shall not be mounted on equipment
8 or appliances, shall be located within 25' of such equipment or appliances, and shall be
9 in the sight line of same.

10 **Exception:** Factory installed disconnects.

11 Add Sections 301.19 and 301.19.1 to read as follows:

12 **301.19 Annual Inspections.** Annual inspections shall be performed by the code official or
13 approved third party testing agency on the following mechanical equipment: auto lifts,
14 boilers, unfired pressure vessels, refrigeration systems for which monitoring equipment is
15 required, and equipment used for smoke control.

16 **Exceptions:** Boilers serving 6 or fewer residential dwelling units.

17 **301.19.1 Independent inspector.** Any boiler that is required to be operated by a
18 Stationary Engineer per Section 111 of this code shall be inspected annually by an
19 independent inspector that is certified with "The National Board of Boiler and Pressure

1 Vessel Inspectors.” Copies of these independent inspection reports shall be provided to
2 the Section of Mechanical Equipment Inspection.

3 Add Section 301.20 to read as follows:

4 **301.20 Motor vehicles.** Motor vehicles used for mechanical, sheet metal, and HVAC work
5 shall be permanently and prominently labeled with company name and phone number.
6 Letters and numbers shall not be less than four inches in height.

7 Add Section to read as follows:

8 **302.6 Stud Guards.** When the edge of bored holes is less than one inch (25mm) from the
9 edge of a stud or joist and when notched studs or joists are covered, stud guards shall be
10 installed to protect service lines from fastener damage.

11 Add Section 303.10 to read as follows:

12 **303.10 Exterior walls.** Equipment and appliances shall not be installed on exterior walls.

13 **Exceptions:**

- 14 1. One- and two-family dwellings where equipment and appliances are not located
15 above seven feet from grade, not above walkways, and not installed in gangways.
16 2. When installed in conjunction with a working platform and access. Working
17 platforms and access shall comply with Sections 306.5 and 306.5.1 of this code.

18 Add Section 303.11 to read as follows:

19 **303.11 Property line.** Equipment or appliances shall not be located within 3 feet of

1 property lines, “set back”.

2 Add Section 304.1.1 to read as follows:

3 **304.1.1 Heating Equipment.** All heating equipment shall be permanently installed.

4 Add Section 304.13 to read as follows:

5 **304.13 Equipment Guards.** Pulleys, belts, gears, and similar equipment shall be protected
6 by an approved guard.

7 Change Section 307.2.4 to read as follows:

8 **307.2.4 Traps.** Condensate drains shall be trapped as required by the equipment or
9 appliance manufacturer. An air gap shall be provided between the drain line and sewer.

10 Change Section 307.2.4.1 to read as follows:

11 **307.2.4.1 Ductless mini-split systems.** Ductless mini-split systems that produce
12 condensate shall be trapped in accordance with manufacturers’ installation
13 instructions.

14 **CHAPTER 5 IS AMENDED AS FOLLOWS:**

15 Add Section 504.5.1 to read as follows:

16 **504.5.1 Interlock.** An interlock system shall be used to prevent the dryer from operating
17 in the event that the dryer exhaust duct power ventilator (booster fan) fails to operate.

1 Add Section 504.5.2 to read as follows:

2 **504.5.2 Location.** The dryer exhaust duct power ventilator (booster fan) shall be located
3 in the same room as the dryer.

4 Change Section 506.3.8 # 2 to read as follows:

5 2. Sections of grease ducts that are inaccessible from the hood or discharge
6 openings shall be provided with cleanout openings spaced not more than 20 feet
7 apart and not more than 10 feet from changes in direction that are 45 degrees or
8 greater.

9 Add Section 506.6 to read as follows:

10 **506.6 Cleaning.** Hoods, grease-removal devices, fans, ducts, and other appurtenances shall
11 be cleaned at intervals to prevent the accumulation of grease. Cleaning schedule and dates of
12 previous cleanings shall be recorded and records shall be maintained on the premises.

13 Change Sections 507.1 to read as follows:

14 **507.1 General.** Commercial kitchen exhaust hoods shall comply with the requirements of
15 this section. Hoods shall be Type I or II and shall be designed to capture and confine
16 cooking vapors and residues. A Type I or Type II hood shall be installed at or above all
17 commercial cooking appliances in accordance with Section 507.2 and 507.3. Where any
18 cooking appliance under a single hood requires a Type I hood, a Type I hood shall be
19 installed. Where a Type II hood is required, a Type I or Type II hood shall be installed.
20 Where a Type I hood is installed, the installation of the entire system, including the hood,

1 ducts, exhaust equipment, and makeup air system shall comply with the requirements of
2 Sections 506, 507, 508, and 509.

3 **Exceptions:**

- 4 1. Factory-built commercial exhaust hoods that are listed and labeled in accordance
5 with UL 710 and installed in accordance with Section 304.1 shall not be required
6 to comply with Sections 507.1.5, 507.2.3, 507.2.5, 507.2.8, 507.3.1, 507.3.3, 507.4
7 and 507.5.
- 8 2. Factory-built commercial cooking recirculating systems that are listed and labeled
9 in accordance with UL 710B and installed in accordance with Section 304.1 shall
10 not be required to comply with Sections 507.1.5, 507.2.3, 507.2.5, 507.2.8,
11 507.3.1, 507.3.3, 507.4 and 507.5. Spaces in which such systems are located
12 shall be considered to be kitchens and shall be ventilated in accordance with
13 Table 403.3.1.1. For the purpose of determining the floor area required to be
14 ventilated, each individual appliance shall be considered as occupying not less
15 than 100 square feet.
- 16 3. Where cooking appliances are equipped with integral down-draft exhaust systems
17 and such appliances and exhaust systems are listed and labeled for the application
18 in accordance with NFPA 96, a hood shall not be required at or above them.
- 19 4. Portable cooking appliances shall not exceed two per occupancy. Any portable
20 cooking appliance for which the manufacturer recommends venting shall be
21 vented.

1 Change Section 507.2 to read as follows:

2 **507.2 Type I hoods.** Type I hoods shall be installed when cooking appliances produce
3 grease or smoke as a result of the cooking process. Type I hoods shall be installed over
4 medium-duty, heavy-duty, and extra-heavy-duty cooking appliances.

5 **Exception:** A Type I hood shall not be required for an electric cooking appliance where
6 an approved testing agency provides documentation that the appliance effluent contains
7 5mg/m³ or less of grease when tested at an exhaust flow rate of 500 cfm in accordance
8 with UL 710B. A Type II hood shall be installed above the electrical cooking appliance
9 and the hood shall be sized for the one electrical appliance only.

10 **CHAPTER 6 IS AMENDED AS FOLLOWS:**

11 Change Section 603.4 Exception to read as follows:

12 **603.4 Metallic ducts.**

13 **Exception:** Ducts installed within single dwelling units shall have a minimum thickness
14 of 28 gage.

15 Change Section 603.6.1.1 to read as follows:

16 **603.6.1.1 Duct length.** Flexible air ducts shall be limited in length to 14 feet.

17 **CHAPTER 10 IS AMENDED AS FOLLOWS:**

18 Change Section 1001 to read as follows:

19 **1001.1 Scope.** In addition to the other provisions of this code, this chapter shall govern the

1 installation, alteration, and repair of water heaters, boilers, and pressure vessels. The
2 provisions of the ASME Code for Boilers and Pressure Vessels as listed in Chapter 15 shall
3 apply.

4 **Exceptions:**

- 5 1 Pressure vessels used for unheated water supply.
- 6 2. Portable pressure vessels and Interstate Commerce Commission containers.
- 7 3. Containers for liquefied petroleum gases, bulk oxygen, and medical gas installed
8 per the Medical Gas and Vacuum Systems Installation Handbook.
- 9 4. Pressure vessels having a volume of 5 cubic feet (0.14 m³) or less operating at
10 pressures not exceeding 250 psi (1724 kPa) and located within occupancies of
11 Use Groups B, F, H, R, S, and U.
- 12 5 Pressure vessels used in refrigeration systems that are regulated by Chapter 11 of
13 this code.
- 14 6. Pressure tanks used in connection with coaxial cables, telephone cables, power
15 cables, and other similar humidity control systems.
- 16 7. Any boiler or pressure vessel installed in a federal or state owned and operated
17 property.

18 **1001.2 Periodic inspections.** All boilers, steam generators, and pressure vessels subject to
19 the provisions of this code shall be inspected annually by an approved independent third
20 party testing agency. Inspection reports shall be filed with the Mechanical Section of the
21 Building Division.

22 **Exception:** Heating boilers or pressure vessels which are located in buildings of Use

1 Group R-3 or Use Group R-2 having six dwelling units or less.

2 **1001.3 Certificate of inspection.** A boiler, steam generator, or pressure vessel subject to the
3 provisions of this code shall not be placed in operation until a sticker denoting inspection and
4 approval has been applied to the vessel.

5 **1001.4 Major repairs.** Welded repairs to boilers, steam generators, and pressure vessels
6 subject to the provisions of this code shall be performed only by those organizations which
7 possess the appropriate ASME Certificate of Authority with extension to field work or an
8 “R” Certificate of Authority issued by the National Board of Boiler and Pressure Vessel
9 Inspectors. A permit shall be required for such work. The fee shall be the same as the fee for
10 installation of the vessel as set forth in Table 106.5.2. A hydrostatic test shall be performed
11 on the vessel before it is returned to service.

12 **1001.5 Condemnation.** Any boiler or pressure vessel which, in the opinion of the code
13 official, constitutes a hazard shall be deemed unsafe and sealed out of service.

14 Change Sections 1002.1 thru 1002.3 to read as follows:

15 **1002.1 General.** Potable water heaters and hot water storage tanks shall be listed and
16 labeled and installed in accordance with the manufacturer’s installation instructions, the
17 Plumbing Code, and this code. All water heaters shall be capable of being removed without
18 first removing a permanent portion of the building structure. The potable water connections
19 and relief valves for all water heaters shall conform to the requirements of the Plumbing
20 Code. Domestic electric water heaters shall comply with UL 174 or UL 1453. Commercial

1 electric water heaters shall comply with UL 1453. Oil-fired water heaters shall comply with
2 UL 732.

3 **1002.2 Water heaters utilized for space heating.** Water heaters utilized both to supply
4 potable hot water and provide hot water for space-heating applications shall be listed and
5 labeled for such applications by the manufacturer and shall be installed in accordance with
6 the manufacturer's installation instructions and the Plumbing Code.

7 **1002.3 Supplemental water-heating devices.** Potable water-heating devices that utilize
8 refrigerant-to-water heat exchangers shall be approved and installed in accordance with the
9 Plumbing Code and the manufacturer's installation instructions.

10 Change Section 1004.6 to read as follows:

11 **1004.6 Boiler rooms and enclosures.** Boiler rooms and enclosures and access thereto shall
12 comply with the Building Code and Chapter 3 of this code. Boiler rooms shall be equipped
13 with a floor drain or other approved means for disposing of liquid waste. In addition, except
14 for one-and two-family dwellings or when the boiler is entirely within a dwelling unit, all
15 other boilers or combination boilers shall be installed in a room protected by an enclosure
16 designed to prevent unauthorized entry. Storage or living quarters shall not be permitted in
17 any boiler or similar heating equipment room.

18 Change Sections 1005.1 and 1005.2 to read as follows:

19 **1005.1 Valves.** Every boiler or modular boiler shall have shutoff valve in the supply and
20 return piping. For multiple boiler or multiple modular boiler installations, every boiler or

1 modular boiler shall have individual shutoff valves in the supply and return piping.

2 **1005.2 Potable water supply.** The water supply to all boilers shall be connected in
3 accordance with the Plumbing Code.

4 Change Section 1006.1 to read as follows:

5 **1006.1 Safety valves for steam boilers.** All steam boilers shall be protected by safety
6 valves as required by the ASME Code for Boiler and Pressure Vessels listed in Chapter 15.

7 Change Section 1006.6 to read as follows:

8 **1006.6 Safety and relief valve discharge.** Safety and relief valve discharge pipes shall be of
9 rigid pipe that is approved for the temperature of the system. The discharge pipe shall be the
10 same diameter as the safety or relief valve outlet. Safety and relief valves shall not discharge
11 so as to be a hazard, a potential cause of damage, or otherwise a nuisance. High-pressure-
12 steam safety valves shall be vented to the outside of the structure. Where a low-pressure
13 safety valve or a relief valve discharges to the drainage system, the installation shall conform
14 to the Plumbing Code.

15 Change Sections 1008.1 and 1008.2 to read as follows:

16 **1008.1 General.** Every steam boiler shall be equipped with one gate valve and one quick-
17 opening blow-off valve in series in each blow-down line. The valves shall be installed in the
18 opening provided on the boiler. The minimum size of the valve shall be the size specified by
19 the boiler manufacturer or the size of the boiler blow-off-valve opening.

1 **1008.2 Discharge.** Blow-off valves shall discharge to a safe place of disposal. Where
2 discharging to the drainage system, the installation shall conform to the Plumbing Code.

3 Change Section 1009.3 to read as follows:

4 **1009.3 Open-type expansion tanks.** Open-type expansion tanks shall be located a
5 minimum of 4 feet (1219 mm) above the highest heating element. The tank shall be
6 adequately sized for the hot water system. An overflow with a minimum diameter of 1 inch
7 (25.4 mm) shall be installed at the top of the tank. The overflow shall discharge to the
8 drainage system in accordance with the Plumbing Code.

9 Add Section 1011.1.1 to read as follows:

10 **1011.1.1 Test of existing vessels.** The pressure for vessels previously in service shall be
11 as specified in the National Board Inspection Code listed in Chapter 15.

12 Add Section 1012 to read as follows:

13 **SECTION 1012**

14 **BLOWOFF TANKS**

15 **1012.1 General.** Blowoff tanks shall be designed and fabricated in accordance with Section
16 VIII of the ASME Boiler Code as listed in Chapter 15 and shall be so stamped.

17 **1012.1.1 Boilers less than 100 psi.** For boilers carrying one hundred psi steam pressure
18 or less, the heads and shell shall be constructed of not less than one-fourth inch steel or
19 equivalent strength material.

1 **1012.1.2 Boilers greater than 100 psi.** For boilers carrying in excess of one hundred psi
2 pressure, tanks shall be fabricated of materials designed for the pressures carried.

3 **1012.2 Size.** The size of the tank shall be indicated by the blow down requirements, and the
4 tank installed shall be large enough to blow down one gauge glass of water from one boiler
5 or from any one of a battery of boilers interconnected. The size of the tank shall be of
6 sufficient capacity so the blow down water from the boiler will only fill one-half the capacity
7 of tank, and the remaining volume of the tank will be available for the vapor displacement.

8 **1012.3 Discharge.** The discharge from the boiler or boilers shall enter the tank above the
9 high water level or surface of the water in such tank. A baffle plate shall be installed in the
10 tank in line with the inlet pipe from the boiler and shall be at least twelve inches from the
11 discharge opening from the boiler into the tank. The outlet opening or discharge from the
12 tank shall be at least two times the area of the inlet pipe, and such outlet pipe shall have an
13 internal pipe built into the tank, extending downward to within four inches of the bottom of
14 the tank. The discharge pipe shall be connected to a sewer through a running trap or to an
15 approved leaching well.

16 **1012.4 Venting.**

17 **1012.4.1 Vent pipe size.** All blow-off tanks shall be properly vented to the outside
18 atmosphere. Such vent pipes shall be at least four times the area of the inlet pipe from
19 the boiler, and such pipe shall not be less than two inch iron pipe size.

20 **1012.4.2 Pipe discharge.** The vent pipe shall be run as directly as possible to the outside

1 atmosphere and in a suitable location so that any steam or water discharged by the blow
2 down of the boiler would not be dangerous or injurious to life.

3 **1012.4.3 Vent obstructions.** The vent shall be free of any pockets or sags that might
4 collect or hold water or cause an obstruction of the pipe and pressure buildup in the tank.
5 The end of the vent pipe shall be protected from the possibility of any obstruction.

6 **1012.5 Manhole.** Each blow down tank shall be provided with a suitable manhole for the
7 inspection and cleaning of the tank.

8 Add Section 1013 to read as follows:

9 **SECTION 1013**

10 **RETURN CONDENSATE**

11 **1013.1 Maximum temperature.** The return condensate from a building heated by a central
12 steam supply shall be permitted to be discharged either into a condensate return system or
13 wasted into a sewer drain connection or approved leaching well. This condensate when
14 discharging into a sanitary sewer system shall not be in excess of 140°F and shall discharge
15 into an open floor drain or a special drain connection or approved receptor. If the floor drain
16 or drain connection to the sewer is above the level of the return piping so that it cannot flow
17 by gravity, an automatic sump pump shall be installed to pump the condensate from the sump
18 to the sewer drain.

19 Add Section 1014 to read as follows:

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SECTION 1014

FIELD ASSEMBLY

1014.1 Welding. Any welding required during assembly shall be performed by welders employed and qualified by companies in possession of the appropriate ASME Certificate of Authorization.

CHAPTER 11 IS AMENDED AS FOLLOWS:

Change Section 1101.4 to read as follows:

1101.4 Water connection. Water supply and discharge connections associated with refrigeration systems shall be made in accordance with this code and the Plumbing Code.

Add Section 1110 to read as follows:

SECTION 1110

RESIDENTIAL AIR CONDITIONERS

1110.1 Permits. Mechanical permits shall be required for residential air conditioning units.

1110.2 Residential split systems. Condensing units, heat pumps, or any other mechanical equipment or appliances shall not be located in front of buildings, in gangways or within three feet of lot lines.

1110.3 Condenser foundations. All condensing units mounted on grade must be located on a level, two inch thick concrete pad or a level, two inch thick plastic pad or other foundation

1 approved by the code official prior to installation.

2 **1110.4 Protection of refrigerant lines.** All piping installed above grade, or underground,
3 shall be protected from damage and corrosion in keeping with recognized standard practice
4 and the recommendations of the manufacturer.

5 **1110.5 Units in areaways.** Where gangways less than four feet in width exist between
6 buildings, all window units shall be installed not less than seven feet above grade.

7 **CHAPTER 12 IS AMENDED AS FOLLOWS:**

8 Change Section 1201.1 to read as follows:

9 **1201.1 Scope.** The provisions of this chapter shall govern the construction, installation,
10 alteration, and repair of hydronic piping systems. This chapter shall apply to hydronic piping
11 systems that are parts of heating, ventilation, and air-conditioning systems. Such piping
12 systems shall include steam, hot water, chilled water, steam condensate, and ground source
13 heat pump loop systems. Potable cold and hot water distribution systems shall be installed in
14 accordance with the Plumbing Code.

15 Add Section 1201.3 to read as follows:

16 **1201.4 Ground source heat pump loop systems.** Ground source heat pump loop systems
17 shall be installed a minimum of 10 feet (3048 mm) from the property line

18 Delete Section 1204.2.

1 Change Section 1206.2 to read as follows:

2 **1206.2 System drain down.** Hydronic piping systems shall be designed and installed to
3 permit the system to be drained. Where the system drains to the plumbing drainage system,
4 the installation shall conform to the requirements of the Plumbing Code.

5 Change Sections 1206.3 and 1206.4 to read as follows:

6 **1206.3 Protection of potable water.** The potable water system shall be protected from
7 backflow in accordance with the Plumbing Code.

8 **1206.4 Pipe penetrations.** Openings for pipe penetrations in walls, floors, or ceilings shall
9 be larger than the penetrating pipe. Openings through concrete or masonry building elements
10 shall be sleeved. The annular space surrounding pipe penetrations shall be protected in
11 accordance with the Building Code.

12 **CHAPTER 14 IS AMENDED AS FOLLOWS:**

13 Change Section 1401.2 to read as follows:

14 **1401.2 Potable water supply.** Potable water systems shall be protected against
15 contamination in accordance with the Plumbing Code.

16 **CHAPTER 15 IS AMENDED AS FOLLOWS:**

17 Modify Chapter 15 by adding the following:

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ANSI

NB-23-National Board Inspection Code, 2013 Edition
1011.1.1

American National Standards Institute
30 West University Drive
Arlington Heights, IL 60004

IAPMO

International Association of Plumbing and Mechanical Officials
5001 E. Philadelphia Street
Ontario, CA 91761-2816

UPC-09- Uniform Plumbing Code

SECTION FOUR. PENALTY CLAUSE. Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof, or who shall erect, construct, alter, extend, repair, remove, demolish, use, or occupy any building, structure, premises, or equipment regulated by this code in violation of an approved construction document or directive of the building official or the Board of Building Appeals, or of a permit or certificate issued under the provisions of this code, and shall, upon conviction thereof, be punished by a fine of not more than \$500, or by imprisonment not exceeding 90 days, or both such fine and imprisonment. Each day that a violation continues shall constitute a separate and distinct offense.

1 **SECTION FIVE. SEVERABILITY.** If a section, subsection, sentence, clause,
2 or phrase of this code is for any reason held to be unconstitutional, such decision shall not
3 affect the validity of the remaining portions of this code.

4 **SECTION SIX. SAVINGS CLAUSE.** That nothing in this Ordinance or in the
5 Mechanical Code hereby adopted shall be construed to affect any suit or proceeding
6 impending in any court, or any rights acquired, or liability incurred, or any cause or causes of
7 action acquired or existing under any act or ordinance hereby repealed as cited in Section
8 Two of this Ordinance; nor shall any just or legal right or remedy of any character be lost,
9 impaired, or affected by this ordinance.

10 **SECTION SEVEN. EMERGENCY CLAUSE.** This being an ordinance
11 necessary for the immediate preservation of the public safety, it is hereby declared to be an
12 emergency measure and shall become effective immediately upon its approval by the Mayor.

13 **SECTION EIGHT. CODIFIED.** It is the intent of the Board of Aldermen that
14 Sections Two, Three, and Four of this ordinance be codified in the Revised Code of the City
15 of Saint Louis.