

1 **BOARD BILL NO. 96** **INTRODUCED BY ALDERMAN PHYLLIS YOUNG**
2

3 An ordinance pertaining to the Mechanical Code of the City of Saint Louis;
4 repealing Ordinance 65021, Ordinance 62579 and Ordinance 65926; adopting the
5 International Mechanical Code, 2009 Edition with Changes, as the Mechanical Code of
6 the City of Saint Louis; and containing a penalty clause, a severability clause and an
7 emergency clause.

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

9 **SECTION ONE.**, Ordinance 65021, approved August 2, 2000, and Ordinance 65926,
10 approved June 26, 2003, pertaining to the 2000 *International Mechanical Code* are hereby
11 repealed. Ordinance 62579, approved March 31, 1992, pertaining to the licensing of Mechanical
12 contractors is hereby repealed.

13 **SECTION TWO.** The *International Mechanical Code*, 2009 Edition as published by the
14 International Code Council, Inc., three copies of which are on file in the Office of the Register of
15 the City of Saint Louis, is hereby adopted as "The Mechanical Code of the City of Saint Louis, in
16 the State of Missouri", pursuant to this Ordinance and in conformity with Section 71.943 RSMo,
17 for the governing of the design, installation, construction and maintenance of mechanical
18 systems, by providing reasonable safeguards to protect the public health and safety against the
19 hazards of inadequate, defective or unsafe mechanical systems and installations as herein
20 provided; and that each and all of the regulations, provisions, penalties, conditions and terms of
21 said *International Mechanical Code* are hereby referred to, adopted and made a part hereto, as if
22 set out in this ordinance with the additions, insertions, deletions and changes prescribed in
23 Section Three of this Ordinance.

1 **SECTION THREE.** The 2009 International Mechanical Code is amended and changed
2 in the following respects:

3 Change Section 101.1 to read as follows:

4 101.1 Title. These regulations shall be known as the Mechanical Code of the City of
5 Saint Louis, hereinafter referred to as "this code".

6 Add Section 101.2.1 to read as follows:

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 Change Section 101.3 to read as follows:

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

16 Change Section 102.1 to read as follows:

17 102.1 General. The provisions of this code shall apply to all matters affecting or relating
18 to structures and premises as set forth in Section 101. Where, in a specific case, different
19 sections of this code specify different materials, methods of construction or other requirements,
20 the most restrictive sections shall govern.

21 Change Section 102.6 to read as follows:

22 102.6 Historic buildings. The provisions of this code relating to the construction,

1 alteration, repair, enlargement, restoration, relocation or moving of building or structures shall
2 not be mandatory for existing buildings or structures identified and classified by the state or City
3 of Saint Louis as historic buildings when such buildings or structures are judged by the code
4 official to be safe and in the public interest of health, safety and welfare regarding any proposed
5 construction, alteration, repair, enlargement, restoration, relocation or moving of buildings.

6 Change Section 102.7 to read as follows:

7 102.7 Moved buildings. Except as determined by Section 102.2, mechanical systems that
8 are a part of buildings or structures moved into or within the City of Saint Louis shall comply
9 with the provisions of this code for new installations.

10 Change Section 102.8 to read as follows:

11 102.8 Referenced codes and standards. The codes and standards referenced in this code
12 shall be those that are listed in Chapter 15 and considered part of the requirements of this code to
13 the prescribed extent of each such reference. Where differences occur between provisions of this
14 code and the referenced standards, the most stringent provision shall apply.

15 Add Section 102.12 to read as follows:

16 102.12 Workmanship. All work shall be conducted, installed and completed in a
17 workmanlike and approved manner so as to secure the results intended by this code.

18 Replace Section 103 to read as follows:

19 **SECTION 103**

20 **SECTION OF MECHANICAL EQUIPMENT INSPECTION**

21 103.1 General. There is hereby created the Section of Mechanical Equipment Inspection
22 within the Division of Building and Inspection which shall have control and enforce all codes,

1 regulations and ordinances pertaining to mechanical installations and systems in accordance with
2 this code. The head of this section shall be known as the Mechanical Equipment Inspection
3 Supervisor, who shall be appointed by the Building Commissioner. Throughout this code, the
4 Mechanical Equipment Inspection Supervisor, the Chief Mechanical Engineer, the Building
5 Commissioner and their authorized employees shall be referred to as the code official.

6 103.2 Mechanical equipment inspection supervisor. There shall be appointed by the
7 Building Commissioner a Mechanical Equipment Inspection Supervisor. The Supervisor shall
8 have a minimum of five years experience as a Mechanical Inspector and possess the
9 qualifications established by the Department of Personnel.

10 103.3 Deputies. There shall be appointed by the code official a sufficient number of
11 Mechanical Equipment Inspectors to adequately perform all inspection duties and enforce all
12 ordinances pertaining to the Mechanical Equipment Inspection Section in accordance with
13 subsequent sections of this code and City of Saint Louis budgetary constraints. All Mechanical
14 Inspectors shall have had at least three years experience and possess the qualifications set forth
15 by the Department of Personnel.

16 103.3.1 Assistant to the supervisor. One such inspector shall assist the Mechanical Equipment
17 Inspection Supervisor. The assistant shall assume the responsibilities of the Mechanical
18 Equipment Inspection Supervisor in the Supervisor's absence or disability.

19 103.3.2 Restriction of employees. An official or employee connected with the
20 Mechanical Equipment Inspection Section, except one whose only connection is that of a
21 member of the Board of Stationary Engineers, shall not be engaged in, or directly or indirectly
22 connected with the furnishing of labor, materials or appliances for the construction, alteration or

1 maintenance of a building in the City of saint Louis, or the preparation of construction
2 documents thereof, unless that person is the owner of the building; nor shall such code official or
3 employee engage in any work that conflicts with official duties or with the interests of the
4 department.

5 103.4 Liability. The code official and employees charged with the enforcement of this
6 code, while acting for the City of Saint Louis, shall not thereby be rendered liable personally,
7 and are hereby relieved from all personal liability for any damage accruing to persons or
8 property as a result of any act required or permitted in the discharge of official duties.

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

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

20 Replace Section 104 to read as follows:

21 **SECTION 104**

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

23 104.1 General. The code official shall enforce all of the provisions of this code and shall

1 act on any question relative to the installation, alteration, repair, maintenance or operation of all
2 mechanical systems, devices and equipment, except as otherwise specifically provided for by
3 statutory requirements or as provided for in Sections 104.1.1 through 104.8.

4 104.1.1 Emergency condemnation. Whenever the code official shall find any building,
5 structure, premises or portion thereof no matter for what purpose used, to be in an unsafe or
6 dangerous condition and that there is an actual and potential danger to the occupants or those in
7 the proximity of any building, structure or premises which poses an immediate danger to public
8 safety or welfare, the code official shall order the immediate evacuation of said building,
9 structure or premises. All of the occupants so notified shall immediately vacate the building,
10 structure, or premises and no person shall re-enter until authorized to do so by the code official.

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

19 Any person who shall violate any provisions of this section shall, upon conviction
20 thereof, be penalized as set forth in **SECTION FOUR**.

21 104.1.2 Authority to placard. The code official has the authority to post a placard in a
22 conspicuous place on a building or premises where the mechanical system has been found to be
23 unsafe or inadequate.

1 104.1.3 Placarded building. Placards shall remain on said building until the required
2 repairs, replacements or improvements have been made and accepted by the code official, and it
3 shall be unlawful to deface or willfully remove any such placard that has been posted on a
4 building without first obtaining consent of the code official. It shall be unlawful for any person to
5 reside in, use, rent, lease or occupy such building for any purpose while so placarded and no
6 person shall remove said placards without the consent of the code official.

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

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

18 104.2 Applications and permits. The code official shall receive applications for and issue
19 permits for the installation, replacement, relocation and alteration of mechanical systems and
20 equipment, and inspect the premises for which such permits have been issued and enforce
21 compliance with the provisions of this code. Such application shall describe in detail the nature
22 of the work and the location thereof by street and number. No person shall begin such work

1 unless and until they shall have submitted a proper application and received a permit. In the case
2 of an emergency, work may begin upon the verbal request of the applicant and verbal permission
3 of the code official, upon the condition that such written application shall be filed in the office of
4 the code official without delay.

5 Exception: Buildings, structures or premises owned and occupied by the United States of
6 America or the State of Missouri.

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

13 104.4.1 Dangerous, hazardous, unsanitary, or unapproved installations. The code official
14 shall have the authority to seal out of service mechanical equipment, devices, and appurtenances
15 covered by the Building and Mechanical Codes when, in the code official's opinion, any of these
16 items are in an unsafe, hazardous, or unsanitary condition, or if the installation was made without
17 obtaining the necessary permit or permits, or if the installation violates the provisions of these
18 codes.

19 104.4.2 Notice of sealing out of service. Before sealing any device out of service, the
20 code official shall, except in cases of emergency, serve ten calendar days written notice upon the
21 building owner, occupant or collector of rent either directly or by United States mail, stating
22 intention to seal the equipment out of service and the reasons therefore.

1 104.4.3 Unlawful to remove seal. Any device sealed out of service by the code official
2 shall be plainly marked with a sign or tag indicating such sealing, and any defacing or removal
3 of the sign or tag, or any tampering with or removal of the seal without approval of the code
4 official, or operation of the sealed unit, shall constitute a violation of this code. The penalty for
5 violation of this section shall be as set forth in *SECTION FOUR*.

6 104.4.4 Utility disconnect. Whenever the code official determines that there is an
7 eminent 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 there
11 exists in a building or upon any premises any condition or violation of this code which makes the
12 building or premises unsafe, unsanitary, dangerous or hazardous, the code official shall have the
13 authority to enter the building or premises at all reasonable times to inspect or to perform the
14 duties imposed upon the code official by this code. If such building or premises is occupied, the
15 code official shall present credentials to the occupant and request entry. If such building is
16 unoccupied, the code official shall first make a reasonable effort to locate the owner or other
17 person having charge or control of the building or premises and request entry. If entry is
18 refused, the code official has recourse to every remedy provided by law to secure entry.

19 When the code official has first obtained a proper inspection warrant or other remedy
20 provided by law to secure entry, an owner or occupant or person having charge, care or control
21 of the building or premises shall not fail or neglect, after proper request is made as herein
22 provided, to promptly permit entry therein by the code official for the purpose of inspection and
23 examination pursuant to this code.

1 104.6 Identification. The code official shall carry proper identification when inspecting
2 structures or premises in the performance of duties under this code.

3 104.7 Notices and orders. The code official shall issue all necessary notices or orders to
4 assure compliance with this code.

5 104.8 Suspensions and Cancellations. The code official shall have the power and is
6 directed to suspend for a definite time or to cancel any license granted hereunder, if, after notice
7 and opportunity to be heard, the party named therein is found guilty by the Board of Examiners
8 of violating rules and regulations established by the Section of Mechanical Equipment
9 Inspection, and do all other acts necessary to carry out these provisions.

10 104.9 Department records. The code official shall keep official records of mechanical
11 applications received, permits issued, fees collected, licenses and certificates issued, reports of
12 inspections, and notices and orders issued. Such records shall be retained in the official records
13 for three years, except notices and orders which have been complied need not be kept.

14 Change Section 105.3 to read as follows:

15 105.3 Required testing. Whenever there is insufficient evidence of compliance with the
16 provisions of this code, or evidence that a material or method does not conform to the
17 requirements of this code, or in order to substantiate claims for alternative materials or methods,
18 the code official shall have the authority to require tests as evidence of compliance to be made at
19 no expense to the City of Saint Louis.

20 Change Section 105.3.1 to read as follows:

21 105.3.1 Test methods. Test methods shall be as specified in this code or by other
22 recognized and accepted test standards. In the absence of recognized and accepted test methods,

1 the code official shall approve the testing procedures.

2 Change Section 105.3.2 to read as follows:

3 105.3.2 Testing agency. All tests shall be performed by an approved independent testing
4 agency.

5 Change Section 105.3.3 to read as follows

6 105.3.3 Test reports. Reports of tests shall be retained by the code official for the period
7 required for retention of public records.

8 Replace Section 106 to read as follows:

9 **SECTION 106**

10 **PERMITS**

11 106.1 When required. No person shall commence any mechanical work until a permit for
12 such work has been issued by the code official. The fees for said permits shall be paid to the
13 City of Saint Louis for each permit herein required. All work shall be done by the person or
14 corporation in whose name the permit or permits required by this section are issued, or any other
15 qualified person or corporation designated by the permit holder. Any person who shall fail to
16 comply with or who shall violate any of the provisions of this section shall be subject to the
17 penalty provisions of *SECTION FOUR*.

18 **Exception:** When equipment replacements and repairs must be performed in an
19 emergency situation, the permit application shall be submitted within the next working
20 business day of the section of mechanical equipment inspection.

21 106.2 Permits not required. Permits shall not be required for any of the following:

- 22 1. Any portable heating appliance.

- 1 2. Any portable ventilation equipment.
- 2 3. Any portable cooking unit.
- 3 4. Replacement of any minor part which does not alter approval of
- 4 equipment or make such equipment unsafe.
- 5 5. Any portable evaporation cooler; and
- 6 6. Any self-contained refrigeration system containing 3 pounds (1.36 kg) or
- 7 less of refrigerant, or actuated by motors of less than 1 horsepower (0.75 kW).

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

11 Permits shall not be required for any properties owned and operated by the State of
12 Missouri or any properties owned and operated by the Government of the United States of
13 America.

14 106.3 Application for permit. Each application for a permit, with the required fee, shall
15 be filed with the code official in such written form as the code official prescribes and shall be
16 accompanied by an adequate written description of the proposed mechanical work and its
17 location. The application shall be made by the owner or lessee of a structure, or the agent of
18 either, or by the registered design professional employed in connection with the proposed work
19 or the contractor employed in connection with the proposed work. The full names, addresses and
20 telephone numbers of the owner, lessee, applicant and the responsible officers, if the owner or
21 lessee is a corporate body, shall be stated in the application.

22 106.3.1 Construction documents. The code official is authorized to require the
23 submission and approval of a set of construction documents showing the nature and extent of the

1 proposed work before a permit is issued. If, in the course of the work, it is found necessary to
2 make any change from the approved construction documents on which a permit has been issued,
3 amended construction documents shall be submitted, and if approved, a supplementary permit
4 shall be issued, after payment of any additional fees, to cover the change after the same
5 conditions required to secure the original permit have been satisfied. The code official is
6 permitted to waive the requirements for filing construction documents where the work involved
7 is of a minor nature. When the quality of the materials is essential for conformity to this code,
8 specific information shall be given to establish such quality, and this code shall not be cited, or
9 the term "legal" or its equivalent used as a substitute for specific information.

10 The code official is authorized to require the submission of specific information in order
11 to determine compliance with this code

12 All construction documents prepared by a registered design professional shall bear the
13 original seal, signature and date in ink of that person. Construction documents for structures
14 more than two stories in height shall indicate how required structural and fire resistance rating
15 integrity will be maintained, and where penetrations will be made for electrical, mechanical,
16 plumbing and communication conduits, pipes and systems.

17 106.3.2 Seismic installations. Construction documents for installations which must meet
18 the seismic requirements of the Building Code listed in Chapter 15 of this code shall show the
19 details of all pertinent anchorage and bracing and shall bear the original seal, signature and date
20 in ink of a registered design professional licensed to practice in the State of Missouri.

21 106.3.4 Amendments to application. Subject to the time limitations of Section 106.3.4,
22 amendments to the construction documents, application or other records accompanying the same
23 shall be filed at any time before completion of the work for which the permit is sought or issued.

1 Such amendments shall be deemed part of the original application and shall be filed in the same
2 manner as the original.

3 106.3.3 Time limitation of application. An application for a permit for any proposed
4 work shall be deemed to have been abandoned six months after the date of filing, unless such
5 application has been diligently prosecuted or a permit shall have been issued. The code official
6 may grant one or more extensions of time for additional periods not exceeding one hundred
7 eighty days each, if there is reasonable cause.

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

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

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

20 The code official is authorized to issue a permit for the installation of part of a
21 mechanical system before the application for the whole system has been submitted or approved,
22 provided adequate information and detailed statements have been filed complying with all the
23 pertinent requirements of this code. The holder of such permit shall proceed at their own risk

1 without assurance that the permit for the entire mechanical system will be granted.

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

6 106.4.2 Validity. The issuance of a permit or approval of construction documents shall
7 not be construed to be a permit for, or an approval of, any violation of any of the provisions of
8 this code or of other ordinances of the City of Saint Louis. A permit presuming to give authority
9 to violate or cancel the provisions of this code shall be invalid.

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

14 106.4.3 Expiration. Every permit issued by the code official under the provisions of this code
15 shall expire by limitation and become null and void if the work authorized by such permit is not
16 commenced within one hundred eighty days from the date of such permit, or if the work
17 authorized by such permit is suspended or abandoned at any time after the work is commenced
18 for a period of one hundred eighty days. The code official may grant one or more extensions of
19 time for an additional period the total not to exceed six months if there is reasonable cause.
20 Before such work recommences, a new permit shall be first obtained and a new fee paid.

21 106.4.4 Extensions. A permitted holding an unexpired permit shall have the right to
22 apply for an extension of the time within which the permitted will commence work under that
23 permit when work is unable to be commenced within the time required by this section for good

1 and satisfactory reasons. The code official shall extend the time for action by the permitted if
2 there is reasonable cause.

3 106.4.5 Permit Revocation, Suspension, Cancellation, Work not in Compliance. The
4 code official shall suspend or revoke a permit or approval issued under the provisions of this
5 code in case of any false statement or misrepresentation of fact in the application or on the
6 construction documents upon which the permit or approval was based. A permit shall also be
7 considered for revocation under the following provisions:

- 8 1. The owner of the property or the contractor shall request cancellation in writing
9 stating the reasons for the request for cancellation. No refund of fees shall be
10 made.
- 11 2. The code official may revoke the permit for fraud, for non-compliance with the
12 code or for failure to pay the prescribed fees.

13 Should the mechanical contractor install work that is not in compliance with the
14 mechanical, fire or building code, the contractor shall be directed by the code official to make
15 necessary corrections to assure code compliance and no other permits shall be issued to said
16 contractor until such work is corrected and approved by the code official.

17 106.4.6 Retention of construction documents. One set of construction documents shall be
18 retained by the code official until final approval of the work covered therein. One set of
19 construction documents shall be returned to the applicant and said set shall be kept at the site of
20 the building or work at all times during which the work authorized thereby is in progress.

21 106.4.8 Posting of permit. A true copy of the permit shall be kept on the site of
22 operations, open to public inspection during the entire time of prosecution of the work and until
23 the completion of the same.

1 106.4.9 Business License Requirement. A permit shall not be issued to any person who
2 does not possess a current and valid Business License from the City of St. Louis.

3 Exception: An owner-occupant of a single family dwelling.

4 106.4.10 Mechanical Contractors License. A permit shall not be issued to any person
5 who does not possess a current and valid Mechanical Contractors License for any work
6 described in Section 112.

7 106.4.11 EPA Card. Any person who handles or purchases refrigerants must be certified
8 as a Universal Technician as required by 40 CFR part 82, Subpart F, a federal law as a condition
9 of permit issuance.

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

15 106.5.1 Work commencing before permit issuance surcharge. In case any work for
16 which a permit required by this code is started or proceeded with prior to the permit being
17 issued, the total normal fees applicable shall be doubled. The payment of said surcharge shall
18 not relieve any persons from fully complying with the requirements of this code for performance
19 or execution of the work, nor from other penalties prescribed by law.

20 106.5.2 Fee schedule. The fees for all mechanical work shall be as indicated in Table
21 106.5.2. Mechanical permit fees shall not be waived for contractors working in facilities owned
22 and operated by the City of Saint Louis.

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TABLE 106.5.2

Application Fee		\$25.00
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Amusement Rides, each		\$10.00
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Auto Lifts, each		\$80.00
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Boilers, each		\$100.00
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Unfired Pressure Vessels, each		\$40.00
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Refrigeration/Air Conditioning (chillers, condensing units, self-contained walk-in coolers/freezers), each		
	Up to 14 tons	\$60.00
	14 tons and over	\$85.00 + \$1.00 per ton
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Cooling Towers, each		\$200.00

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Ventilation Systems, each		
air handling units, packaged units, make-up air units, unit heaters, unit ventilators, etc.		
	200CFM to 2000CFM	\$80.00
	2001CFM to 5000CFM	\$140.00
	5001CFM and over	\$180.00
Air Terminal Units		\$40.00 1 st / \$10.00 each additional

Exhaust Fans, each		
	200CFM to 2000CFM	\$80.00
	2001CFM to 5000CFM	\$140.00
	5001CFM and over	\$180.00

Exhaust Hoods, each		\$40.00
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Smoke Control Fans, each location		\$250.00
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Fire/Smoke Dampers, each		\$40.00 1 st / \$10.00 each additional
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Process Piping		\$25.00 1 st 100 ft/\$10.00 each additional 100 ft.
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Residential Fees (Use Groups R1, R2 and R3)		
	furnaces, , each	\$40.00
	condensing units, each	\$40.00
	combination furnace/condensing unit, each	\$40.00

Re-inspection , each (for faulty or incomplete work at time of requested inspection)		\$25.00
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Special inspection , each		\$40.00
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39 106.5.3 Fees for abandoned work or revoked permit. Fees shall not be waived or
40 refunded for any mechanical permit that has been abandoned, canceled or revoked.

41 Add Section 107.7 to read as follows:

42 107.7 Contractor's responsibilities. It shall be the responsibility of every contractor who
43 enters into contracts for the installation or repair of mechanical systems for which a permit is
44 required to comply with adopted federal, state and local rules and regulations concerning
45 certification and licensing.

46 Add Section 107.8 to read as follows:

1 107.8 Coordination of inspections. Whenever in the enforcement of this code or another
2 code or ordinance, the responsibility of more than one code official is involved, it shall be the
3 duty of the code officials involved to coordinate their inspections and administrative orders as
4 fully as practicable so that the owners and occupants of the structure shall not be subjected to
5 visits by numerous inspectors or multiple or conflicting orders. Whenever an inspector from any
6 agency or department observes an apparent or actual violation of some provision of some law,
7 ordinance or code not within the inspector's authority to enforce, the inspector shall report the
8 findings to the code official having jurisdiction.

9 Add Section 107.8.1 to read as follows:

10 All legal assistance necessary to effect compliance of the mechanical systems of such
11 premises with this section shall be supplied to the code official by the City Counselor and other
12 City of St. Louis agencies. The Fire and Police Departments of the City of St. Louis shall, upon
13 request, assist the code official in the enforcement of this code.

14 Add Section 107.9 to read as follows:

15 107.9 Moved Structures. Before any structure that has been moved within or into the City
16 of St. Louis is occupied, all mechanical equipment and devices shall be inspected and tested for
17 safe occupation and compliance with the requirements of this code.

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

20 Change Section 108.1 to read as follows:

21 108.1 Unlawful acts. It shall be unlawful for any person, firm or corporation to erect,
22 construct, alter, repair, remove, demolish or operate mechanical equipment regulated by this
23 code, or cause same to be done, in conflict with or in violation of any of the provisions of this

1 code. All work shall be conducted, installed and completed in a workmanlike and approved
2 manner so as to secure the results intended by this code.

3 Change Section 108.3 to read as follows:

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

11 Change Section 108.4 to read as follows:

12 108.4 Violation penalties. Any person, partnership or corporation who shall violate a
13 provision of this code or shall fail to comply with any of the requirements thereof or who shall
14 erect, construct, alter or repair mechanical equipment or systems in violation of the approve
15 construction documents or directive of the code official, or of a permit or license issued under
16 the provisions of this code, shall, upon conviction thereof, be penalized as set forth in **SECTION**
17 **FOUR.**

18 Change Section 108.5 to read as follows:

19 108.5 Stop work orders. Upon notice from the code official that mechanical work is being
20 done contrary to the provisions of this code or in a dangerous or unsafe manner, or without
21 permit, such work shall immediately cease. Such notice shall be in writing and shall be given to
22 the owner of the property involved, or to the owner's agent, or to the person doing the work. The
23 stop work order shall state the conditions under which work is authorized to resume. Where an

1 emergency exists, the code official shall not be required to give a written notice prior to stopping
2 the work. Any person who shall continue any work on the system after having been served with
3 a stop work order, except such work as that person is directed to perform to remove a violation
4 or unsafe conditions, shall be subject to immediate arrest and, upon convicted thereof, be
5 penalized as set forth in **SECTION FOUR**.

6 Change Section 108.6 to read as follows:

7 108.6 Abatement of Violation. The imposition of the penalties prescribed shall not
8 preclude the legal officer of the City of St. Louis from instituting appropriate action to prevent
9 the unlawful construction or to restrain, correct or abate a violation, or to prevent illegal
10 occupancy of a building, structure or premises, or to stop an illegal act, the conduct of business
11 or operation of mechanical equipment or systems on or about any premises.

12 Change Section 109 to read as follows:

13 **SECTION 109**

14 **MEANS OF APPEAL**

15 109.1 Appeals. Any person aggrieved by the decision of the code official, or any Board
16 hereunder, may appeal said decision to the Board of Building Appeals in the manner prescribed
17 in Section 121.0 of the Building Code. The fee for said appeal is as prescribed in said Building
18 Code.

19 Add Section 111 to read as follows:

20 **SECTION 111**

21 **BOARD OF STATIONARY ENGINEERS**

22 111.1 General. There is hereby established a Board of Stationary Engineers. The Board

1 shall act in an advisory capacity to the code official in the preparation of rules and regulations
2 regarding installation, use and operation of boilers, steam generators and pressure vessels
3 consistent with the provisions of this code.

4 111.1.1 Composition of board. The Board of Stationary Engineers shall be composed of
5 three members, one member who shall be the code official or duly authorized representative and
6 two other members who shall be appointed by the Director of Public Safety.

7 The two members appointed by the Director of Public Safety shall be engineers licensed by
8 the City of Saint Louis under the provisions of this section as Class I licensed Stationary
9 Engineers, with a minimum of five years experience in the operation and maintenance of steam
10 engines, steam boilers or steam turbines. The Board shall elect their own chairman.

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

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

1 111.3 Rules and regulations. The Board of Stationary Engineers shall have the power to
2 adopt such rules and regulations consistent with this section as it may deem necessary for the
3 application of the provisions of this section. Such rules and regulations shall become effective
4 upon approval by the majority of the Board, and shall be on file in the office of the code official,
5 and shall be available to the public upon request.

6 111.4 Boiler operator certificate of competency. The operation of boilers or steam
7 generators which are generating saturated steam in a pressure range of fifteen psig minimum to
8 one hundred and fifty psig maximum each of which boilers has not more than one hundred
9 square feet of rated heating surface shall be at all times in the charge of a certified Boiler
10 Operator. Application for a Boiler Operator's Certificate of Competency is to be made to the
11 code official or duly authorized representative. The code official upon finding that the applicant
12 is thoroughly familiar with the operational principles which concern the safety and care of the
13 boiler or steam generator, shall issue to such applicant a Boiler Operator Certificate of
14 Competency. The certificate is issued for work at a single specific location as designated on the
15 application and is not transferable. The fee for the examination shall be as listed in Table 111.9.

16 111.5 Licensing of stationary engineers required. All Stationary Engineers shall be licensed
17 as to the class as set forth in sections 111.5.1 through 111.5.4.

18 111.5.1 Licensing of operators of boilers or steam generators, less than 1500 square foot
19 of heating surface. Any boiler or steam generator which has not more than 1500 square
20 feet of rated heating surface, and which is rated to generate steam at pressures between
21 fifteen psig and three hundred psig maximum or which is rated to generate hot water
22 above 160 psig and 250°F to 300 psig, and associated equipment, shall be in the charge of
23 an attending Class II or a Class I licensed Stationary Engineer, whenever in operation.

1 Square footage shall be determined by the total input to a single header.

2 111.5.2 Licensing of operators of boilers or steam generators in excess of 1500 square
3 feet of heating surface. Any boiler or steam generator producing saturated or superheated
4 steam above 212°F in excess of fifteen psig having a rated heating surface in excess of
5 one thousand five hundred square feet of hot water or any other liquid as defined in this
6 code, or any boiler or steam generator producing saturated or superheated steam or any
7 high temperature liquid above 212°F in excess of three hundred psig, regardless of rated
8 heating surface, and any steam engine or steam turbine, associated with either of the said
9 boilers or steam generators shall be in the charge of an attending Class I licensed
10 Stationary Engineer, whenever in operation. Square footage shall be determined by the
11 total input to a single header.

12 111.5.3 Licensing of operators of ammonia systems from 50 to 100 tons. Any ammonia
13 system totaling between fifty tons and one hundred tons rated capacity shall be in the
14 charge of an attending Class I or Class II licensed Stationary Engineer where located in
15 any and all buildings, whenever in operation.

16 111.5.4 Licensing of operators of ammonia systems 100 tons and over. Any ammonia
17 system totaling one hundred tons or more rated capacity shall be in the charge of an
18 attending Class I licensed Stationary Engineer where located in any and all buildings,
19 whenever in operation.

20 111.6 Stationary engineer's license applications. The application for all classes of licenses
21 shall be filed with the Secretary of the Board on the form prescribed by the Board of Stationary
22 Engineers. Within a reasonable time, the Board shall examine all applicants who meet

1 qualifications under Sections 111.6.1 thru 111.6.3 for the various classes of licenses in order to
2 ascertain whether the applicants possess the knowledge, skill, ability and competency required
3 for the class of license applied for, and for safe operation of various equipment. The Board shall
4 issue to such applicants a license upon the Board finding that the applicant possesses the
5 necessary qualifications and has successfully passed the required examination for the type of
6 license sought.

7 111.6.1 Qualifications for stationary engineer, class I. All applicants for a Class I Stationary
8 Engineer's License shall be a citizen of the United States, shall have made application for
9 such citizenship, or shall be authorized to hold employment by the Immigration and
10 Naturalization Service. The applicant shall be at least twenty-one years of age and shall
11 have had at least two years of training under a Class I licensed Stationary Engineer or
12 equivalent training, or shall be registered with the Missouri State Board of Registration for
13 Architects and Professional Engineers as an Engineer or as an Engineer in Training, and
14 shall have been actually employed in the engineering or research division of a power
15 generating plant in an engineering capacity for a minimum of twelve months. The Board
16 may accept twelve months of formal training by a nationally recognized agency in lieu of
17 experience. The applicant shall demonstrate their knowledge, skill, ability and competency
18 to the Board to operate boilers or steam generators of any size or capacity rating which are
19 generating saturated or superheated steam at any pressure in excess of fifteen psig, or hot
20 water or any other liquid as defined in this code, and ammonia systems in excess of one
21 hundred tons capacity, and to operate associated power plant components and auxiliaries,
22 such as steam turbines, engines, air compressors, ammonia systems, pumps, and feed water
23 heaters, electric generators and other equipment.

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

19 111.6.3 Qualifications for Stationary Engineer, Class II Restricted. The Board of Stationary
20 Engineers shall be permitted to license applicants for a Stationary Engineer's License as
21 Class II Restricted Stationary Engineers upon finding that the applicant is thoroughly
22 familiar with the operating principals which concern the safety and care of the boiler or
23 steam generator. The Class II Restricted Stationary Engineer's License is issued for work at

1 a specific location as designated on the application and is not transferable.

2 111.7 Examination (all classes) for stationary engineers. The examination for a Class II
3 Stationary Engineer's License shall be oral. The examination for Class I Stationary Engineer's
4 License shall be both oral and written, provided that the applicant shall attain a predetermined
5 percentage as set by the Board of Stationary Engineers in the written examination before the
6 applicant becomes eligible for the oral examination. The written examination must be completed
7 within six months from the date of application. If the applicant does not pass either the oral or
8 written examination the applicant shall wait ninety days before filing a new application.

9 111.8 Temporary operation by unlicensed persons. In cases of emergency, and with the
10 approval of the code official, an owner or steam user may appoint a trustworthy experienced
11 person, familiar with the operation of the plant, as a temporary operator in plants where licensed
12 operators are required by this code.

13 111.8.1 Permit to operate. Before a designated person can operate the plant, the code
14 official or duly appointed representative, shall be notified. An inspection of the plant shall
15 be made to determine the fitness of the appointed operator. If such person is found to be fit,
16 a permit shall be issued by the code official for such person to operate the plant on a
17 temporary basis; such permit shall be issued for no longer than thirty days. After issuance
18 of the permit, inspection of the plant thereafter shall be on a daily basis as long as the
19 operator remains in the temporary classification. An inspection fee shall be charged per
20 inspection to the owner or steam user payable upon receipt of bill; total cost to be
21 determined at the conclusion of the daily inspections. See Table 111.9 for fee schedule.

22 111.8.2 Application for license. Within three working days after permission is granted, the

1 designated operator shall make application to the Board of Stationary Engineers for
2 examination for the class license required for the plant. Application and examination shall
3 be in accordance with the provisions of section 111.6. In the case of a Class I examination
4 the applicant shall complete the written portion of the examination within fourteen days.
5 Both written and oral parts of the examination shall be completed so that the applicant's
6 qualifications for licensing shall be determined within the thirty day period of emergency
7 operation. If the Board of Stationary Engineers determines that the applicant has failed the
8 examination, the applicant's permit to operate on a temporary basis shall be revoked
9 immediately and such person shall not be eligible for reappointment as a temporary operator
10 until the examination has been passed.

11 111.9 Licenses and fees. At the time of the filing of the application, each applicant for a
12 Boiler Operator Certificate of Competency or Stationary Engineer's License, shall pay to the
13 Secretary of the Board of Stationary Engineers a filing fee as set forth in Table 111.9, to cover
14 the cost of the examination given under the provisions of this section. Provided, further, that
15 under no conditions shall said sum, or any part thereof, be refunded if the applicant fails to pass
16 the examination or if the applicant fails to complete the written examination within the
17 prescribed time limit as set by the Board of Stationary Engineers. All monies received by the
18 secretary shall be paid to the City Treasurer. All applicants passing the examination for a Class I
19 or Class II Stationary Engineer's License shall be presented, upon the passage of such
20 examination, with a Stationary Engineer's License for the class for which they have been
21 licensed. All licenses shall be issued for a period of one year from the date of issuance and shall
22 be renewed each year. The fee for licenses renewal shall be as specified in Table 111.9.

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TABLE 111.9

LICENSE FEES

BOARD OF STATIONARY ENGINEERS

ITEM	FEE	DURATION	REMARKS AND REQUIREMENTS
STATIONARY ENGINEER'S LICENSE			
Examination and Application Fee			
Class I	\$ 25.00		
Class II	\$ 25.00		
Renewal Fee			
Class I	\$ 25.00	1 year	
Class II	\$ 25.00	1 year	
BOILER OPERATORS CERTIFICATE OF COMPETENCY			
Examination Fee	\$ 15.00		Includes initial certification
Renewal	\$ 15.00	1 year	Issued for one year from date
TEMPORARY BOILER PLANT OPERATOR			
Permit - per day	\$100.00		Issued for up to 30 days

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7

111.9.1 License to be displayed. At all times when boilers, steam generators or associated equipment are in use and are operating, there shall be in charge and attendance a licensed

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

7 111.9.2 Renewal. Boiler Operator Certificates of Competency and Stationary Engineer's
8 Licenses shall be renewed annually by the Board of Stationary Engineers upon payment of
9 an annual renewal fee. The Board of Stationary Engineers shall have the power to revoke
10 such certificate or license for cause.

11 111.9.3 Notice of change of employment. Every Stationary Engineer or Boiler Operator
12 regulated under the provisions of this section is required to notify the Secretary of the Board
13 of Stationary Engineers, within forty-eight hours thereafter, when they accept or leave
14 employment as a Stationary Engineer or Boiler Operator and to submit the name of their
15 new employer.

16 111.10 Penalty. Any owner or steam user of a boiler, steam generator or associated
17 equipment who shall neglect or refuse to employ a licensed Stationary Engineer of the class
18 designated in Section 111.5, or who allows any unlicensed person to be in charge and attendance
19 of boilers, steam generator or associated equipment requiring a licensed Stationary Engineer,
20 except as provided for in section 111.8, shall, upon conviction thereof, be penalized as set forth
21 in **SECTION FOUR**.

22 111.10.1 Penalty for violation by operators. Any licensed Class II Stationary Engineer or
23 certified Boiler Operator who shall be in charge and attending the operation of a boiler,

1 steam generator or associated equipment in excess of the legal size and capacity, shall. upon
2 conviction thereof, be penalized as set forth in **SECTION FOUR**. In addition to such fine,
3 the License of such Stationary Engineer or the Certificate of Competency of the Boiler
4 Operator shall be suspended for a period not to exceed ninety days or revoked as determined
5 by the Board of Stationary Engineers.

6 111.10.2 Suspension of license. The Board of Stationary Engineers shall order the
7 suspension for not exceeding ninety days, or revocation of a Stationary Engineer License or
8 Boiler Operator Certificate of Competency of any person regulated under the provisions of
9 this section where the Board, after a public hearing, finds that the licensee is addicted to
10 drugs or alcohol, or was under the undue influence of drugs or alcohol while in attendance
11 and performing their duties as a licensed Stationary Engineer or certified Boiler Operator, or
12 has been negligent in the performance of their duties while in attendance of the equipment
13 for which they are licensed so as to endanger the lives and property of persons in the
14 immediate area of such equipment; provided further that such person shall be given a ten
15 day notice of the time and place of such hearing. Such person may be represented by
16 counsel at such hearing before such Board. The Board of Stationary Engineers, at their
17 discretion, may order a new examination for applicants for reinstatement of a license or
18 certificate suspended or revoked under the provisions of this section.

19 The Board of Stationary Engineers shall also order the suspension for a period not to exceed
20 thirty days, of the Stationary Engineer's License or Boiler Operator Certificate of
21 Competency of any person licensed under the provisions of this section, where the Board,
22 after a public hearing, shall find that the licensee has failed to comply with the provisions of
23 this section. Such person shall be given a ten day notice of such hearing and may be

1 represented by counsel at such hearing.

2 111.11 Failure to comply. Any owner or steam user who fails to comply with the above
3 provisions of this code shall be in violation of this code and the code official shall and is hereby
4 directed to consider the plant unsafe and officially seal the plant out of service.

5 Add Section 112 to read as follows:

6 **SECTION 112**

7 **BOARD OF EXAMINERS FOR MECHANICAL CONTRACTORS**

8 112.1 Scope. There is hereby established a Board of Examiners for Mechanical
9 Contractors which shall govern mechanical contractors who perform work under this code of the
10 following prescribed nature: Contractors involved in any or all of the functions described herein,
11 including the laying out, fabrication, assembly, installation and maintenance of pressurized
12 piping and piping systems, fixtures and equipment for steam and hot water heating, cooling,
13 lubricating, and industrial processing systems. The specific functions performed by said
14 Contractors would include any of the following: The selection of the type and size of pipe and
15 related materials according to job specifications with respect to such work; the inspection of
16 work sites to determine the presence of obstructions and to ascertain that holes will not cause
17 structural weakness; the planning of the sequence of installation to avoid obstructions and
18 activities of other construction workers, the cutting of pipe using a hacksaw, pipe cutters,
19 hammer and chisel, cutting torch, pipe cutting machine or any other equipment used to perform
20 the same general functions as this equipment; the threading of pipe using a threading machine;
21 the bending of pipe by hand or with a pipe bending machine; the assembly and installation of a
22 variety of metal and nonmetal pipe and pipe fittings including those made of brass, copper, glass
23 and plastic with respect to the work described above; the joining of pipe by means of a threaded,

1 caulked, soldered, brazed, fused or cemented joint; the securing of pipe to structures with
2 clamps, brackets and hangers using hand tools; the installation and maintenance of refrigeration
3 and air-conditioning systems including compressors, pumps, meters, and hydraulic controls and
4 piping on commercial building; the testing of piping systems for leaks by increasing pressure in
5 pipes and observing gauges attached to pipes for indication of leaks.

6 This code shall apply to the above-described functions only as they relate to the new
7 construction, replacement, maintenance, overhauling, general repair, renovation, rebuilding,
8 rehabilitation or remodeling of mechanical systems which are: Steam piping and piping systems;
9 pressurized piping systems in waste water and sewage treatment facilities; pressurized and
10 vacuum piping in processing and industrial pipe installations through which hazardous, toxic or
11 poisonous substances flow; pressurized piping and air distribution in air conditioning systems of
12 greater than or equal to 14 tons in aggregate in structures; pressurized piping and air distribution
13 in heating systems of greater than or equal to 300,000BTU's in structures; ventilation systems
14 and equipment of greater than or equal to 5000CFM in structures; exhaust systems and
15 equipment of greater than or equal to 5000CFM in structures;

16 This code shall be interpreted in conjunction with other building and safety codes by the
17 code official or his designated representative. Alterations or repairs to any mechanical system
18 shall conform to that required for a new mechanical system without requiring the existing
19 mechanical system to comply with all of the requirements of this code. Alterations or repairs
20 shall not cause an existing mechanical system to become unsafe nor adversely affect the
21 performance of the mechanical system. Where additions or alterations subject parts of existing
22 systems to loads exceeding those permitted herein, such parts shall be made to comply with this
23 Code.

1 This code does not apply to any mechanical work performed by employees of an owner,
2 lessee, or keeper of the structure in which the work is performed or to any public utility and/or
3 its employees.

4 112.2 Composition of board. The Board of Examiners for Mechanical Contractors who
5 install mechanical equipment shall be composed as follows: The Mayor shall appoint one
6 employing Mechanical Contractor who performs work within the City of St. Louis and one
7 registered professional engineer, two journeyman pipefitters as that term is defined herein, and
8 one user of a mechanical system subject to this Code which user shall be either an owner, lessee
9 or keeper of any commercial structure with a mechanical system or the agent of such a person.
10 Each of the above shall be a United States Citizen. They shall review each applicant's
11 qualifications for licensing. At no time shall there be two members of the Board who work for
12 or are members of the same company, entity or international union organization or an affiliate
13 thereof. There shall be no more than one member of the committee who work for or are
14 members of the same company, entity or international union organization or affiliate thereof.

15 112.3 Review Committee. The Board of Examiners shall review individuals applying for
16 licensing as to their qualifications and experience.

17 112.4 Secretary of the Board, Duties. The duties of the Secretary of the Board of
18 Examiners shall be as stated with respect to similar Boards. The Secretary of the Board shall be
19 nonvoting. The Secretary shall record all meeting notices.

20 112.5 Term of Office, Compensation. The members of the Board of Examiners shall hold
21 office for a term of four (4) years or until their successors are duly appointed and qualified by the
22 Mayor. Initial appointments to the Board of Examiners shall be for the following terms:
23 Mechanical System User - 4 years; Mechanical Contractor - 3 years; journeyman pipefitter - 2

1 years; journeyman pipefitter - 2 years. The non-city employees shall receive compensation for
2 their services if provided by separate ordinance on a per-meeting basis.

3 112.6 Powers and Duties of the Board of Examiners. It shall be the duty of the board of
4 Examiners to meet on the regularly to: hear and determine any charges or complaints made
5 against licensed Mechanical Contractor or Journeyman Pipefitter; approve Apprentice Pipefitter
6 applications; and/or transact any other lawful business of the Board.

7 1. Administration. The Board of Examiners shall receive applications and they shall
8 approve or deny licenses as described in Section 112.

9 2. Test. The Board of Examiners shall prescribe the administration, form, and content of
10 tests of licenses described in Section 112. The Board shall also determine the passing grade
11 for each test.

12 3. Complaints. All complaints by citizens concerning mechanical installation procedures or
13 rules shall be made to the Board of Examiners in writing. After a thorough investigation,
14 the Board shall respond to the complaint in writing.

15 4. Adoption of Rules. The Board of Examiners shall adopt rule and regulations, when and
16 as required at the discretion of the Board, consistent with the provisions of this ordinance
17 and the laws of the City of St. Louis, related to the Board's powers and duties as herein
18 stated.

19 5. Inspections. The Board of Examiners shall order the inspection of any mechanical
20 system whenever deemed necessary for the public's safety.

21 6. Suspension/Revocation of Licenses. The Board of Examiners may revoke or suspend any
22 license it has issued after investigation and hearing.

1 112.7 License as a Mechanical Contractor

2 1. Mechanical Contractor shall be in responsible charge of the work of person(s)
3 who have served an apprenticeship program covering the work described in Section 112
4 certified by the U. S. Department of Labor or who shall have worked as a journeyman
5 performing said work for 5,000 hours in the previous five (5) years, or have equivalent
6 training and experience. Only journeyman pipefitters as defined herein and apprentices
7 working under their supervision shall perform the work described in Section 112. In
8 addition, mechanical contractors shall comply with the guidelines and requirements of the
9 City of St. Louis relating to equal opportunity in employment.

10 2. Manufacturer representative business entities and their employees engaged in the
11 supply of equipment involving pressure pipe, pressure vessels, fired and unfired, cooling, heating
12 or compressed air which by contract with manufacturers to supply parts, (proprietary) repairs,
13 maintenance, start-up, testing, tuning and replacements shall be certified to perform to the extent
14 that their duties and responsibilities are defined and required by contract with equipment
15 manufacturers. A journeyman status to existing manufacturer trained service personnel shall be
16 granted and apprentice requirements and training shall be approved under the control of
17 manufacturer trained specialists and shall be approved in said manufacturer representative
18 business entities. Any employee of a manufacturer representative business entity upon leaving
19 said business entity shall be required to relicense themselves by test administered by the section
20 of Mechanical Regulations and Inspection and shall be required to show proof of 5,000 hours
21 experience in the previous five (5) years.

22 3. Manufacturer representative business entities holding the National Board of Boiler and
23 Pressure Vessel Inspectors "R" stamp shall be deemed authorized to perform work on pressure

1 vessels and associated attachments as previously required by City and State Code. Service
2 personnel with certification provided by said business entity shall be licensed as journeymen
3 pipefitters and apprentices as applicable in accordance with this Code.

4 **112.8 License Journeymen Pipefitter**

5 Journeymen pipefitters are employees of mechanical contractors performing the work
6 described in Section 111 hereof and shall be licensed within the City of St. Louis prior to
7 performing any of said work. Journeyman pipefitters shall be licensed within the City of St.
8 Louis. Journeyman pipefitters will be issued a journeyman pipefitters license for a three years
9 period for a fee of \$50.00. Such license shall be issued to anyone who has completed a bonafide
10 apprenticeship program as described in Section 112.5 or to anyone deemed to have equivalent
11 training and qualifications, and to anyone who can show proof of 3,000 hours work of the type
12 described in Section 112 during the preceding three years. There shall be a notice of renewal sent
13 to the last know address of journeyman licensees and a thirty (30) day grace period after
14 expiration shall be given in which renewal shall be given without re-qualification or re-
15 examination. After said initial 180 days all journeymen applicants must successfully pass a test
16 administered by the Section of Mechanical Regulations and Inspections.

17 **112.9 Registration as an Apprentice Pipefitter.**

18 Apprentice pipefitters as used herein shall be anyone in the process of serving in an
19 apprenticeship program covering the work described in Section 112 certified by the Bureau of
20 Apprenticeship and Training of the U. S. Department of Labor and to anyone attending an
21 equivalent training program such as one approved by the North Central Association of Colleges
22 and Schools. The Board of Examiners shall, upon application, review equivalent training
23 programs for approval. Such person must work under the direct personal and immediate

1 supervision of a licensed journeyman pipefitter in the employment of a mechanical contractor.
2 The apprentice shall register with the Plumbing Section and pay a Five Dollar registration fee.
3 The apprentice will be issued an apprenticeship certificate with "apprentice" plainly marked on it,
4 the apprentice's name and date of issue. The term pipefitter as used in this Code shall include
5 pipefitters as that term is generally used and all mechanical maintenance journeymen and
6 apprentices.

7 112.6 Mechanical Certification Fees. Mechanical Contractors employing registered
8 apprentices and licensed journeyman pipefitters shall be reviewed by the Board of Examiners.
9 The review shall determine the contractor's qualifications and experience as regards installation
10 or testing on mechanical equipment using qualified pipefitter personnel. Upon qualifying, the
11 Mechanical Contractor will be issued a certificate by the Division of Building and Inspection for
12 a three (3) year period. The certificate fee shall be One Hundred Dollars (\$300.00) for three (3)
13 years. The certificate will state the contractor's name, address, name of firm if not their own, and
14 certificate number. When the Mechanical Contractor has qualified, the contractor will be issued
15 a Certificate for the performance of work covered by this Mechanical Code. There shall be a
16 notice of renewal sent to last known address of certificate holder and a thirty (30) day grace
17 period after expiration shall be given in which renewal shall be given without re-qualification or
18 re-examination.

19 112.7 Certificate of Insurance. A copy of a Certificate of Insurance for combined
20 \$300,000.00 minimum limits liability insurance for bodily injury and property damage shall be
21 submitted to the Mechanical Section on or before January 15th of each year by a certified
22 Mechanical Contractor. The certificate shall state the insurance company's name, address, phone
23 number, kind of insurance, coverage and policy number. Permits will not be issued to contractors

1 who fail to file a Certificate of Insurance with the Mechanical Section annually or whose
2 insurance has lapsed.

3 Add Section 201.3 to read as follows:

4 201.3 Terms defined in other codes. Where terms are not defined in this code and are
5 defined in the building code, electrical code, fire code, fuel gas code, or the plumbing code, such
6 terms shall have meanings ascribed to them as in those codes.

7 Add Section 201.5 to read as follows:

8 201.5 Referenced other codes and standards. Any codes or standards referenced in this
9 code shall be taken to mean the applicable City of St. Louis code.

10 Change Section 202 by the addition or modification of the following definitions:

11 **BASE FLOOD ELEVATION.** A reference point, determined in accordance with the
12 building code, based on the depth or peak elevation of flooding, including wave height, which
13 has a 1 percent (100-year flood) or greater chance of occurring in any given year.

14 **BUILDING CODE.** The building code adopted by the City of St. Louis.

15 **ELECTRICAL CODE.** The electrical code adopted by the City of St. Louis.

16 **FIRE CODE.** The fire code adopted by the City of St. Louis.

17 **FLEXIBLE AIR CONNECTOR.** A flexible air duct not having certain flame
18 penetration, puncture and impact tests.

19 **FLEXIBLE AIR DUCT.** A flexible air duct tested in accordance with Underwriters
20 Laboratory's *Standard for Factory made Duct Materials*, UL-181, and installed in accordance
21 with the conditions of its UL listing. Separate installation limitations for flexible air connectors
22 and flexible air ducts are identified in NFPA Standard 90A.

1 **HAZARDOUS LOCATION.** Any location considered to be a fire hazard for flammable
2 vapors, dust, combustible fibers or other highly combustible substances. The location is not
3 necessarily categorized in the building code as a high-hazard use group classification.

4 **PLUMBING CODE.** The plumbing code adopted by the City of St. Louis.

5 **PORTABLE COOKING APPLIANCE.** A single non-permanent cooking appliance (not
6 attached with screws, clamps or other fastening devices) which is electrically cord and plug
7 connected and/or gas-fired using listed and labeled gas convenience outlets used in conjunction
8 with listed and labeled gas appliance connectors. A portable cooking appliance shall be counter-
9 or table-top mounted; shall be less than 2 feet (610 mm) in any dimension; and shall weigh less
10 than 100 pounds (454 kg). The owner or operator of a portable cooking appliance shall be able
11 to provide the Mechanical Inspection Section with manufacturer's information documenting the
12 above information.

13 **SAFETY VALVE.** A valve that relieves pressure in a closed system by opening fully at
14 the rated discharge pressure. The valve is of the spring-pop type.

15 **WORKMANLIKE.** Executed in a skilled manner, e.g., generally plumb, level, square, in
16 line, undamaged and without marring adjacent work.

17 Add Section 301.16 to read as follows:

18 301.16 Annual Inspections. Annual inspections shall be performed by the code official on
19 the following mechanical equipment: auto lifts, boilers, unfired pressure vessels, refrigeration
20 systems for which monitoring equipment is required and equipment used for smoke control

21 Exception: Boilers serving 6 or fewer residential dwelling units.

22 Add Section 301.17 to read as follows:

1 301.17 GFCI Receptacle. A GFCI receptacle shall be installed within 25 feet of all
2 mechanical equipment and appliances.

3 Add Section 302.6 to read as follows:

4 302.6 Stud Guards. When the edge of bored holes is less than one inch (25mm) from the
5 edge of a stud or joist, and when notched studs or joists are covered, stud guards shall be
6 installed to protect service lines from fastener damage.

7 Add Section 304.1.1 to read as follows:

8 304.1.1 Heating Equipment. All heating equipment shall be permanently installed.

9 Add Section 304.13 to read as follows:

10 304.13 Equipment Guards. Pulleys, belts, gears and similar equipment shall be protected
11 by an approved guard.

12 Add Section 407 Section to read as follows:

13 **SECTION 407**

14 **EXIT ENCLOSURE VENTILATION**

15 407.1 Exits. Equipment and ductwork for exit enclosures ventilation shall comply with one
16 of the following:

17 1. Such equipment and ductwork shall be located exterior to the building and shall be
18 directly connected to the exit enclosure by ductwork enclosed in construction as
19 required by the building code for shafts.

20 2. Where such equipment and ductwork is located within the exit enclosure, the intake air
21 shall be taken directly from the outdoors and the exhaust air shall be discharged directly
22 to the outdoors, or such air shall be conveyed through ducts enclosed in construction as
23 required by the building code for shafts.

1 3. Where located within the building, such equipment and ductwork shall be separated from
2 the remainder of the building, including mechanical equipment, with construction as
3 required for shafts.

4 In each case, openings into fire-resistance-rated construction shall be limited to those needed for
5 maintenance and operation and shall be protected by self-closing fire-resistance-rated devices in
6 accordance with the building code.

7 Exit enclosure ventilation systems shall be independent of other building ventilation systems.

8 Add Section 506.6 to read as follows:

9 506.6 Cleaning Schedule. A cleaning schedule shall be maintained by the owner or
10 occupant for every commercial kitchen exhaust system. The schedule shall indicate the methods
11 of cleaning and the time interval between cleanings.

12 Add Section 506.7 to read as follows:

13 506.7 Existing Equipment. Existing commercial kitchen exhaust equipment shall be
14 made of copper, steel or stainless steel, shall be of liquid tight construction throughout the head
15 and associated exhaust duct(s), shall incorporate an approved fire suppression system and shall
16 successfully pass a capture test.

17 Change Section 507.1 to read as follows:

18 Delete Exception 2.

19 Add Section 507.1.1 to read as follows:

20 507.1.1 Recirculating Kitchen Exhaust Hoods. Recirculating kitchen exhaust hoods shall
21 not be installed.

22 Add Section 511.3 to read as follows

23 511.3 Equipment in Airstreams. Fans and mechanical equipment shall not be located

1 within the airstream unless specifically approved for such location.

2 Change Section 603.6.1.1 to read as follows:

3 603.6.1.1 Flexible Duct Length. Flexible duct lengths shall be limited to 10 feet.

4 Add Section 1001.2 to read as follows:

5 1001.2 Certificate of inspection. A boiler, steam generator or pressure vessel subject to
6 the provisions of this code shall not be placed in operation until a sticker denoting inspection and
7 approval has been applied to the vessel.

8 Add Section 1001.3 to read as follows:

9 1001.3 Major repairs. Welded repairs to boilers, steam generators and pressure vessels
10 subject to the provisions of this code shall be performed only by those organizations which
11 possess the appropriate ASME Certificate of Authority with extension to field work or an "R"
12 Certificate of Authority issued by the National Board of Boiler and Pressure Vessel Inspectors.
13 A permit shall be required for such work. The fee shall be the same as the fee for installation of
14 the vessel as set forth in Table 106.5.2. A hydrostatic test shall be performed on the vessel
15 before it is returned to service.

16 Add Section 1001.4 to read as follows:

17 1001.4 Condemnation. Any boiler or pressure vessel which, in the opinion of the code
18 official, constitutes a hazard shall be deemed unsafe and sealed out of service.

19 Change Section 1008.1 to read as follows:

20 1008.1 General. Every steam boiler shall be equipped with one gate valve and one
21 quick-opening blow-off valve in series in each blow-down line. The valves shall be installed in
22 the opening provided on the boiler. The minimum size of the valve shall be the size specified by

1 the boiler manufacturer or the size of the boiler blow-off-valve opening.

2 Add Section 1011.1.1 to read as follows:

3 1011.1.1 Test of existing vessels. The pressure for vessels previously in service shall be
4 as specified in the National Board Inspection Code listed in Chapter 15.

5 Add Section 1012 to read as follows:

6 **SECTION 1012**

7 **BLOWOFF TANKS**

8 1012.1 General. Blowoff tanks shall be designed and fabricated in accordance with
9 Section VIII of the ASME Boiler Code as listed in Chapter 15 and shall be so stamped.

10 1012.1.1 Boilers less than 100 psi. For boilers carrying one hundred psi steam pressure
11 or less, the heads and shell shall be constructed of not less than one-fourth inch steel or
12 equivalent strength material.

13 1012.1.2 Boilers greater than 100 psi. For boilers carrying in excess of one hundred psi
14 pressure, tanks shall be fabricated of materials designed for the pressures carried.

15 1012.2 Size. The size of the tank shall be indicated by the blow down requirements, and
16 the tank installed shall be large enough to blow down one gauge glass of water from one boiler
17 or from any one of a battery of boilers interconnected. The size of the tank shall be of sufficient
18 capacity so the blow down water from the boiler will only fill one-half the capacity of the tank,
19 and the remaining volume of the tank will be available for the vapor displacement.

20 1012.3 Discharge. The discharge from the boiler or boilers shall enter the tank above the
21 high water level or surface of the water in such tank. A baffle plate shall be installed in the tank
22 in line with the inlet pipe from the boiler and shall be at least twelve inches from the discharge

1 opening from the boiler into the tank. The outlet opening or discharge from the tank shall be at
2 least two times the area of the inlet pipe, and such outlet pipe shall have an internal pipe built
3 into the tank, extending downward to within four inches of the bottom of the tank. The
4 discharge pipe shall be connected to a sewer through a running trap or to an approved leaching
5 well.

6 1012.4 Venting.

7 1012.4.1 Vent pipe size. All blow-off tanks shall be properly vented to the outside
8 atmosphere. Such vent pipes shall be at least four times the area of the inlet pipe from the boiler,
9 and such pipe shall not be less than two inch iron pipe size.

10 1012.4. Pipe discharge. The vent pipe shall be run as directly as possible to the outside
11 atmosphere and in a suitable location so that any steam or water discharged by the blow down of
12 the boiler would not be dangerous or injurious to life.

13 1012.4.3 Vent obstructions. The vent shall be free of any pockets or sags that might
14 collect or hold water or cause an obstruction of the pipe and pressure buildup in the tank. The
15 end of the vent pipe shall be protected from the possibility of any obstruction.

16 1012.5 Manhole. Each blow down tank shall be provided with a suitable manhole for the
17 inspection and cleaning of the tank.

18 Add Section 1013 to read as follows:

19 1013.1 Maximum temperature. The return condensate from a building heated by a
20 central steam supply shall be permitted to be discharged either into a condensate return system or
21 wasted into a sewer drain connection or approved leaching well. This condensate when
22 discharging into a sanitary sewer system shall not be in excess of one hundred forty degrees
23 Fahrenheit (140°F) and shall discharge into an open floor drain or a special drain connection or

1 approved receptor. If the floor drain or drain connection to the sewer is above the level of the
2 return piping so that it cannot flow by gravity, an automatic sump pump shall be installed to
3 pump the condensate from the sump to the sewer drain.

4 Add Section 1014 to read as follows:

5 1014.1 Welding. Any welding required during assembly shall be performed by welders
6 employed and qualified by companies in possession of the appropriate ASME Certificate of
7 Authorization.

8 Add Section 1110 to read as follows:

9 **SECTION 1110**

10 **RESIDENTIAL AIR CONDITIONERS**

11 1110.1 Permits. Permits shall be required in accordance with Section 106.

12 1110.2 Residential split systems. When a condensing unit for residential uses (R-1, R-2
13 or R-3) is to be located on grade, it shall not be located in front of the building.

14 1110.3 Condenser foundations. All condensing units mounted on grade must be located
15 on a level, four inch (4") thick concrete pad or other foundation approved by the code official
16 prior to installation.

17 1110.4 Protection of refrigerant lines. All piping installed above grade, or underground,
18 shall be protected from damage and corrosion in keeping with recognized standard practice and
19 the recommendations of the manufacturer.

20 1110.5 Units in areaways. Window units shall be installed not less than seven feet above
21 grade. Condensing units shall not be installed in areaways.

22 ***SECTION FOUR.***

1 Any person who shall violate a provision of this code or shall fail to comply with any of
2 the requirements thereof, or who shall erect, construct, alter, extend, repair, remove, demolish,
3 use or occupy any building, structure or premises or equipment regulated by this code in
4 violation of an approved construction document or directive of the code official or the Board of
5 Building Appeals, or of a permit, license or certificate issued under the provisions of this code,
6 shall, upon conviction thereof, be punished by a fine of not more than five hundred dollars , or
7 by imprisonment not exceeding ninety days, or both such fine and imprisonment. Each day that
8 a violation continues shall constitute a separate and distinct offense.

9 ***SECTION FIVE.***

10 That nothing in this Ordinance or in the Mechanical Code hereby adopted shall be construed to
11 affect any suit or proceeding impending in any court, or any rights acquired, or liability incurred,
12 or any cause or causes of action acquired or existing, under any act or ordinance hereby repealed
13 as cited in Section One of this Ordinance; nor shall any just or legal right or remedy of any
14 character be lost, impaired or affected by this Ordinance.

15 ***SECTION SIX.***

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

18 ***SECTION SEVEN.***

19 This being an ordinance necessary for the immediate preservation of the public safety, it
20 is hereby declared to be an emergency measure and shall become effective immediately upon its
21 approval by the mayor.