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CITY OF SEATTLE

ORDINANCE _____

COUNCIL BILL _____

..title

AN ORDINANCE relating to the Seattle Fuel Gas Code; amending Section 22.420.010 of the Seattle Municipal Code and adopting by reference Chapters 2 through 8 of the 2015 International Fuel Gas Code, and amending those chapters; adopting a new Chapter 1 for the Seattle Fuel Gas Code related to administration, permitting, and enforcement; and repealing Sections 2-8 of Ordinance 124276.

..body

BE IT ORDAINED BY THE CITY OF SEATTLE AS FOLLOWS:

Section 1. Section 22.420.010 of the Seattle Municipal Code, last amended by Ordinance 124276, is amended as follows:

22.420.010 Adoption of International Fuel Gas Code

The Seattle Fuel Gas Code consists of: (1) the following portions of the ((2012)) 2015 edition of the International Fuel Gas Code published by the International Code Council, as amended by City Council by ordinance: Chapters 2-8, together with the adopted amendments and additions, and (2) Chapter 1 relating to administration, permitting and enforcement adopted by City Council by ordinance. One copy of the ((2012)) 2015 International Fuel Gas Code is filed with the City Clerk in C.F. ((313184)) _____.

Section 2. Chapter 1 of the Seattle Fuel Gas Code is adopted to read as follows:

- 1 1. Detached one- and two-family dwellings and multiple single-family dwellings
2 (townhouses) not more than three stories above grade plane with a separate means of
3 egress and their accessory structures shall comply with the *International Residential*
4 *Code*.
- 5 2. The standards for liquefied petroleum gas installations are the 2014 edition of NFPA
6 58 (Liquefied Petroleum Gas Code) and the 2015 edition of ANSI Z223.1/NFPA 54
7 (National Fuel Gas Code), as amended.

8 **103.2 Applicability of city laws.** A mechanical permit application shall be considered under the
9 Seattle Mechanical, Fuel Gas and Energy codes in effect on a date as provided below, or on a
10 date as otherwise required by law.

- 11 1. Mechanical permit applications shall be considered under the codes in effect on the date
12 used to determine the codes applicable to the building permit application according to
13 Seattle Building Code Section 101.3 if any of Items 1.1 through 1.3 apply:

14 1.1 The mechanical permit application is submitted as part of a building permit
15 application;

16 1.2 The mechanical permit application is for work directly associated with a building
17 permit but is submitted separately from the building permit application; or

18 1.3 The mechanical permit application is for initial tenant alterations submitted no later
19 than 18 months after the date of the approved final inspection for the building, and is
20 submitted before the expiration date of the building permit for the tenant alteration, as
21 determined by Seattle Building Code Section 106.9.

1 2. Mechanical permit applications other than those subject to Item 1 shall be considered
2 under the codes in effect on the date a complete mechanical permit application is
3 submitted that complies with all the requirements of Section 114.

4 **103.3 Additions, alterations and repairs.** Additions, alterations, repairs and replacement of
5 equipment or systems shall comply with the provisions for new equipment and systems except as
6 otherwise provided in Section 104 of this code.

7 **103.4 Internal consistency.** If in any specific case, different sections of this code specify
8 different materials, methods of construction or other requirements, the most restrictive governs.
9 If there is a conflict between a general requirement and a specific requirement, the specific
10 requirement governs.

11 **103.5 Referenced codes and standards.** The codes and standards referenced in this code are
12 part of the requirements of this code to the extent prescribed by each such reference. If
13 differences occur between provisions of this code and referenced codes and standards, the
14 provisions of this code apply.

15 **Exception:** Where enforcement of a code provision would violate the conditions of the
16 listing of the equipment or appliance, the conditions of the listing and manufacturer's
17 instructions apply.

18 **103.6 Appendices.** Provisions in the *International Fuel Gas Code* appendices do not apply
19 unless specifically adopted.

20 **103.7 Metric units.** Wherever in this code there is a conflict between metric units of
21 measurement and U.S. customary units, the U.S. customary units govern.

22 **103.8 References to other codes.** Whenever an International, National or Uniform Code is
23 referenced in this code, it means the Seattle edition of that code, including local amendments.

1 References to the “Building Code”, “Mechanical Code”, “Fire Code”, “Residential Code” and
2 “Plumbing Code” mean the Seattle editions of those codes.

3 **SECTION 104**

4 **APPLICATION TO EXISTING MECHANICAL SYSTEMS**

5 **104.1 Additions, alterations, renovations or repairs.** Additions, alterations, renovations or
6 repairs may be made to any mechanical system without requiring the existing mechanical system
7 to comply with all the requirements of this code, if the addition, alteration, renovation or repair
8 conforms to the standards required for a new mechanical system. Additions, alterations,
9 renovations or repairs shall not cause an existing system to become unsafe, unhealthy or
10 overloaded.

11 Minor additions, alterations, renovations, and repairs to existing mechanical systems may be
12 installed in accordance with the law in effect at the time the original installation was made, if
13 approved by the code official.

14 **104.2 Existing installations.** Mechanical systems lawful at the time of the adoption of this code
15 may continue their use, be maintained or repaired, be converted to another type of fuel, or have
16 components replaced if the use, maintenance, repair, conversion of fuel, or component
17 replacement is done in accordance with the basic original design and location, and no hazard to
18 life, health or property has been or is created by such mechanical system.

19 **104.3 Changes in building occupancy.** Mechanical systems that are a part of a building or
20 structure undergoing a change in use or occupancy as defined in the International Building Code
21 shall comply with all requirements of this code that are applicable to the new use or occupancy.

22 **104.4 Maintenance.** All mechanical systems, materials, equipment, appurtenances and all parts
23 thereof shall be maintained in proper operating condition in accordance with the original design

1 and in a safe and hazard-free condition. All devices or safeguards that were required by a code in
2 effect when the mechanical system was installed shall be maintained in conformance with the
3 code edition under which installed. The owner or the owner's authorized agent is responsible for
4 maintenance of mechanical systems and equipment. To determine compliance with this
5 subsection, the code official may cause a mechanical system or equipment to be reinspected.

6 The fire chief and the code official each have authority to obtain compliance with the
7 requirements of this subsection.

8 **Exception:** The code official may modify the requirements of this section where all or a
9 portion of the building is unoccupied.

10 **104.5 Moved buildings.** Building or structures moved into or within the City shall comply with
11 standards adopted by the code official. No building shall be moved into or within the City
12 unless, prior to moving, the code official has inspected the building for compliance with this
13 code and the permit holder has agreed to correct all deficiencies found and has been issued a
14 building permit for the work. A bond or cash deposit in an amount sufficient to abate or
15 demolish the building shall be posted prior to issuance of a permit. See Section 114 for
16 information required on plans. Any moved building that is not in complete compliance with
17 standards for moved buildings within eighteen months from the date of permit issuance and is
18 found to be a public nuisance may be abated.

19 **104.6 Landmarks--Historic buildings and structures.** The code official may modify the
20 specific requirements of this code as it applies to landmarks and require in lieu thereof alternate
21 requirements that, in the opinion of the code official, will result in a reasonable degree of safety
22 to the public and the occupants of those buildings.

1 For purposes of this section a landmark is a building or structure that is subject to a
2 requirement to obtain a certificate of approval from the City Landmarks Preservation Board
3 before altering or making significant changes to specific features or characteristics, that has been
4 nominated for designation and the City Landmarks Preservation Board has not issued a
5 determination regarding designation, that has been designated for preservation by the City
6 Landmarks Preservation Board, that has been designated for preservation by the State of
7 Washington, that has been listed or determined eligible to be listed in the National Register of
8 Historic Places, or that is located in a landmark or special review district subject to a requirement
9 to obtain a certificate of approval before making a change to the external appearance of a
10 structure.

11 SECTION 105

12 ALTERNATE MATERIALS AND METHODS OF CONSTRUCTION

13 **105.1 Alternate materials and methods of construction and design.** This code does not
14 prevent the use of any material, design or method of construction not specifically allowed or
15 prohibited by this code, provided the alternate has been approved and its use authorized by the
16 code official. The code official may approve an alternate, provided the code official finds that the
17 proposed alternate complies with the provisions of this code and that the alternate, when
18 considered together with other safety features of the building or other relevant circumstances,
19 will provide at least an equivalent level of strength, effectiveness, fire resistance, durability,
20 safety and sanitation. The code official may require that sufficient evidence or proof be
21 submitted to reasonably substantiate any claims regarding the use or suitability of the alternate.
22 The code official may, but is not required to, record the approval of alternates and any relevant
23 information in the files of the code official or on the approved construction documents.

1 the City of Seattle be held to have assumed any such liability by reason of the inspections
2 authorized by this code or any permits or certificates issued under this code.

3 **108.5 Responsibility for compliance.** Compliance with the requirements of this code is the
4 obligation of the owner of the building, structure or premises, the authorized agent of the owner,
5 and other persons responsible for the condition or work, and not of the City or any of its officers,
6 employees or agents.

7 SECTION 109

8 UNSAFE EQUIPMENT AND HAZARD CORRECTION ORDER

9 **109.1 Emergency order.** Whenever the code official finds that any equipment regulated by this
10 code is in such a dangerous and unsafe condition as to constitute an imminent hazard to life or
11 limb, the code official may issue an emergency order. The emergency order may (1) direct that
12 the equipment be restored to a safe condition by a date certain; (2) require that the building,
13 structure or premises, or portion thereof, containing the equipment be vacated within a
14 reasonable time to be specified in the order, or in the case of extreme danger, the order may
15 specify immediate vacation of the building, structure or premises, or portion thereof; or (3)
16 authorize immediate disconnection of the utilities or energy source.

17 **109.1.1 Service of emergency order.** The order shall be posted on the premises or
18 personally served on the owner of the building or premises or any person responsible for the
19 condition. The order shall specify the time for compliance.

20 **109.1.2 Effect of emergency order.** No person may occupy a building, structure or
21 premises, or portion thereof, after the date on which the building is required to be vacated
22 until the building, structure or premises, or portion thereof, is restored to a safe condition as

1 required by the order and this code. It is a violation for any person to fail to comply with an
2 emergency order issued by the code official.

3 **109.2 Hazard correction order.** Whenever the code official finds that unsafe equipment exists,
4 the code official may issue a hazard correction order specifying the conditions causing the
5 equipment to be unsafe and directing the owner or other person responsible for the unsafe
6 equipment to correct the condition by a date certain. In lieu of correction, the owner may submit
7 a report or analysis to the code official analyzing said conditions and establishing that the
8 equipment is, in fact, safe. The code official may require that the report or analysis be prepared
9 by a licensed engineer.

10 **109.2.1 Service of hazard correction order.** The order shall be served upon the owner,
11 agent or other responsible person by personal service or regular first class mail addressed to
12 the last known address of such person or if no address is available after reasonable inquiry,
13 the order may be posted in a conspicuous place on the premises. The order may also be
14 posted if served by personal service or first class mail.

15 **109.2.2 Effect of hazard correction order.** It is a violation for any person to fail to comply
16 with a hazard correction order as specified in this subsection.

17 SECTION 110

18 ENFORCEMENT, VIOLATIONS AND PENALTIES

19 **110.1 Violations.** It is a violation of this code for any person to:

- 20 1. Install, erect, construct, enlarge, alter, repair, replace, remodel, move, improve, remove,
21 convert or demolish, equip, occupy, use or maintain any mechanical system or equipment,
22 or cause or permit the same to be done, in the City, contrary to or in violation of any of the
23 provisions of this code.

- 1 2. Knowingly aid, abet, counsel, encourage, hire, induce or otherwise procure another to
- 2 violate or fail to comply with this code.
- 3 3. Use any material or install any device, appliance or equipment that is subject to this code
- 4 and has not been approved by the code official.
- 5 4. Violate or fail to comply with any order issued by the code official pursuant to the
- 6 provisions of this code or with any requirements of this code.
- 7 5. Remove, mutilate, destroy or conceal any notice or order issued or posted by the code
- 8 official pursuant to the provisions of this code, or any notice or order issued or posted by
- 9 the code official in response to a natural disaster or other emergency.
- 10 6. Conduct work under a permit without requesting an inspection as required by Section 116.

11 **110.2 Notice of violation.** If, after investigation, the code official determines that standards or
12 requirements of this code have been violated or that orders or requirements have not been
13 complied with, the code official may issue a notice of violation upon the owner, agent, or other
14 person responsible for the action or condition. The notice of violation shall state the standards or
15 requirements violated, shall state what corrective action, if any, is necessary to comply with the
16 standards or requirements, and shall set a reasonable time for compliance.

17 **110.2.1 Service of notice of violation.** The notice shall be served upon the owner, agent or
18 other responsible person by personal service or regular first class mail addressed to the last
19 known address of such person, or if no address is available after reasonable inquiry, the
20 notice may be posted in a conspicuous place on the premises. The notice may also be posted
21 if served by personal service or first class mail. Nothing in this section limits or precludes
22 any action or proceeding to enforce this code, and nothing obligates or requires the code
23 official to issue a notice of violation prior to the imposition of civil or criminal penalties.

1 **110.2.2 Review of notice of violation by the code official.** Any person affected by a notice
2 of violation issued pursuant to Section 110.2 may obtain a review of the notice by making a
3 request in writing to the code official within ten days after service of the notice. When the
4 last day of the period computed is a Saturday, Sunday, or city holiday, the period runs until 5
5 p.m. of the next business day.

6 **110.2.2.1 Review procedure.** The review shall occur not less than ten nor more than 20
7 days after the request is received by the code official unless otherwise agreed to by the
8 person requesting the review. Any person affected by the notice of violation may submit
9 additional information to the code official. The review shall be made by a representative
10 of the code official who will review any additional information that is submitted and the
11 basis for issuance of the notice of violation. The reviewer may request clarification of the
12 information received and a site visit.

13 **110.2.2.2 Decision.** After the review, the code official shall:

- 14 1. Sustain the notice;
- 15 2. Withdraw the notice;
- 16 3. Amend the notice; or
- 17 4. Continue the review to a date certain.

18 **110.2.2.3 Order.** The code official shall issue an order containing the decision within 15
19 days of the date that the review is completed and shall cause the order to be mailed by
20 regular first class mail to the persons requesting the review and the persons named on the
21 notice of violation, addressed to their last known address.

22 **110.3 Stop work orders.** The code official may issue a stop work order whenever any work is
23 being done contrary to the provisions of this code, or contrary to a permit issued by the code

1 official, or in the event of dangerous or unsafe conditions related to equipment or construction.

2 The stop work order shall identify the violation and may prohibit work or other activity on the
3 site.

4 **110.3.1 Service of stop work order.** The code official shall serve the stop work order by
5 posting it in a conspicuous place at the site. If posting is not physically possible, the stop
6 work order may be served by personal service or by regular first class mail to the last known
7 address of: the property owner, the person doing or causing the work to be done, or the
8 holder of a permit if work is being stopped on a permit. For purposes of this section, service
9 is complete at the time of posting or of personal service, or if mailed, three days after the date
10 of mailing. When the last day of the period so computed is a Saturday, Sunday or city
11 holiday, the period runs until 5 p.m. on the next business day.

12 **110.3.2 Effective date of stop work order.** Stop work orders are effective when posted, or
13 if posting is not physically possible, when one of the persons identified in Section 110.3.1 is
14 served.

15 **110.3.3 Review of stop work orders by the code official.** Any person aggrieved by a stop
16 work order may obtain a review of the order by delivering to the code official a request in
17 writing within two business days of the date of service of the stop work order.

18 **110.3.3.1 Review procedure.** The review shall occur within two business days after
19 receipt by the code official of the request for review unless otherwise agreed by the
20 person making the request. Any person affected by the stop work order may submit
21 additional information to the code official for consideration as part of the review at any
22 time prior to the review. The review will be made by a representative of the code official
23 who will review all additional information received and may also request a site visit.

1 **110.3.3.2 Decision.** After the review, the code official may:

- 2 1. Sustain the stop work order;
- 3 2. Withdraw the stop work order;
- 4 3. Modify the stop work order; or
- 5 4. Continue the review to a date certain.

6 **110.3.3.3 Order.** The code official shall issue an order containing the decision within
7 two business days after the review is completed and shall cause the order to be sent by
8 regular first class mail to the person or persons requesting the review, any person on
9 whom the stop work order was served, and any other person who requested a copy before
10 issuance of the order, addressed to their last known address.

11 **110.4 Authority to disconnect utilities in emergencies.** The code official has the authority to
12 disconnect fuel-gas utility service or energy supplies to a building, structure, premises or
13 equipment regulated by this code in case of emergency where necessary to eliminate an
14 immediate hazard to life or property. The code official may enter any building or premises to
15 disconnect utility service. The code official shall, whenever possible, notify the serving utility,
16 the owner and the occupant of the building, structure or premises of the decision to disconnect
17 prior to taking such action, and shall notify the serving utility, owner and occupant of the
18 building, structure or premises in writing of such disconnection immediately thereafter.

19 **110.5 Authority to condemn equipment.** Whenever the code official determines that any
20 equipment or portion thereof regulated by this code is hazardous to life, health or property, the
21 code official shall order in writing that such equipment either be disconnected, removed or
22 restored to a safe or sanitary condition, as appropriate. The written notice shall fix a date certain

1 for compliance with such order. It is a violation for any person to use or maintain defective
2 equipment after receiving such notice.

3 When any equipment or installation is to be disconnected, the code official shall give written
4 notice of such disconnection and causes therefore within 24 hours to the serving utility, the
5 owner and the occupant of the building, structure or premises. When any equipment is
6 maintained in violation of this code, and in violation of a notice issued pursuant to the provisions
7 of this section, the code official shall institute any appropriate action to prevent, restrain, correct
8 or abate the violation.

9 **110.6 Connection after order to disconnect.** No person shall make connections from any
10 energy, fuel or power supply nor supply energy or fuel to any equipment regulated by this code
11 that has been disconnected or ordered to be disconnected by the code official, or the use of which
12 has been ordered to be discontinued by the code official until the code official authorizes the
13 reconnection and use of such equipment.

14 **110.7 Civil penalties.** Any person violating or failing to comply with the provisions of this code
15 is subject to a cumulative civil penalty in an amount not to exceed \$500 per day for each
16 violation from the date the violation occurs or begins until compliance is achieved. In cases
17 where the code official has issued a notice of violation, the violation will be deemed to begin, for
18 purposes of determining the number of days of violation, on the date compliance is required by
19 the notice of violation.

20 **110.8 Enforcement in Municipal Court.** Civil actions to enforce this code shall be brought
21 exclusively in Seattle Municipal Court, except as otherwise required by law or court rule. In any
22 civil action for a penalty, the City has the burden of proving by a preponderance of the evidence

1 that a violation exists or existed; the issuance of a notice of violation or of an order following a
2 review by the code official is not itself evidence that a violation exists.

3 **110.9 Judicial review.** Because civil actions to enforce this code must be brought exclusively in
4 Seattle Municipal Court pursuant to Section 110.8, orders of the code official, including notices
5 of violation issued under this chapter, are not subject to judicial review pursuant to chapter
6 36.70C RCW.

7 **110.10 Alternative criminal penalty.** Anyone who violates or fails to comply with any notice
8 of violation or order issued by the code official pursuant to this code or who removes, mutilates,
9 destroys or conceals a notice issued or posted by the code official shall, upon conviction thereof,
10 be punished by a fine of not more than \$5000 or by imprisonment for not more than 365 days, or
11 by both such fine and imprisonment for each separate violation. Each day's violation shall
12 constitute a separate offense.

13 **110.11 Additional relief.** The code official may seek legal or equitable relief to enjoin any acts
14 or practices and abate any condition when necessary to achieve compliance.

15 **110.12 Administrative review by the code official.** Prior to issuance of the mechanical permit,
16 applicants may request administrative review by the code official of decisions or actions
17 pertaining to the administration and enforcement of this code. Requests shall be addressed to the
18 code official.

19 **110.13 Administrative review by the Construction Codes Advisory Board.** After
20 administrative review by the code official, and prior to issuance of the mechanical permit,
21 applicants may request review of decisions or actions pertaining to the application and
22 interpretation of this code by the Construction Codes Advisory Board according to International
23 Building Code Section 103.11, except for stop work orders, notices of violations and revocations

1 of permits. The review will be performed by three or more members of the Construction Codes
2 Advisory Board, chosen by the Board Chair. The Chair shall consider the subject of the review
3 and members' expertise when selecting members to conduct a review. The decision of the
4 review panel is advisory only; the final decision is made by the code official.

5 **110.14 Recording.** The code official may record a copy of any order or notice with the
6 Department of Records and Elections of King County.

7 **110.15 Appeal to Superior Court.** Final decisions of the Seattle Municipal Court on
8 enforcement actions authorized by Title 22 and this code may be appealed pursuant to the Rules
9 for Appeal of Decisions of Courts of Limited Jurisdiction.

10 SECTION 111

11 RULES OF THE CODE OFFICIAL

12 **111.1 Authority.** The code official has authority to issue interpretations of this code and to adopt
13 and enforce rules and regulations supplemental to this code as may be deemed necessary to
14 clarify the application of the provisions of this code. Such interpretations, rules and regulations
15 shall be in conformity with the intent and purpose of this code.

16 **111.2 Procedure for adoption of rules.** The code official shall promulgate, adopt and issue
17 rules according to the procedures specified in the Administrative Code, Chapter 3.02 of the
18 Seattle Municipal Code.

19 SECTION 112

20 CONSTRUCTION CODES ADVISORY BOARD

21 **112.1 Construction Codes Advisory Board committee.** A committee of the Construction
22 Codes Advisory Board may examine proposed administrative rules and amendments relating to
23 this code and related provisions of other codes and make recommendations to the code official

1 and to the City Council for changes in this code. The committee will be called on as needed by
2 the Construction Codes Advisory Board.

3 SECTION 113

4 PERMITS

5 **113.1 Permits required.** Except as otherwise specifically provided in this code, a permit shall be
6 obtained from the code official prior to each installation, alteration, repair, replacement or
7 remodel of any equipment or mechanical system regulated by this code. A separate mechanical
8 permit is required for each separate building or structure.

9 **113.2 Work exempt from permit.** A mechanical permit is not required for the work listed
10 below.

- 11 1. Any portable heating appliance, portable ventilating equipment, or portable cooling unit,
12 if the total capacity of these portable appliances does not exceed 40 percent of the
13 cumulative heating, cooling or ventilating requirements of a building or dwelling unit and
14 does not exceed 3 kW or 10,000 Btu input.
- 15 2. Any closed system of steam, hot or chilled water piping within heating or cooling
16 equipment regulated by this code.
- 17 3. Minor work or the replacement of any component part of a mechanical system that does
18 not alter its original approval and complies with other applicable requirements of this
19 code.

20 **113.3 Compliance required.** All work shall comply with this code, even where no permit is
21 required.

22 **113.4 Flood hazard areas.** In addition to the permit required by this section, all work to be
23 performed in areas of special flood hazard as defined in Chapter 25.06 of the Seattle Municipal

1 Code, subject to additional standards and requirements set forth in Chapter 25.06, the Seattle
2 Floodplain Development Ordinance.

3 **113.5 Emergency repairs.** In the case of an emergency, the installation, alteration or repair of
4 any refrigeration system or equipment may be made without a permit, provided that application
5 for a permit is made within the later of 24 hours or one working day from the time when the
6 emergency work was started.

7 SECTION 114

8 APPLICATION FOR PERMIT

9 **114.1 Application.** To obtain a permit, the applicant shall first file an application in a format
10 determined by the code official. Every such application shall:

- 11 1. Identify and describe the work to be covered by the permit for which application is made.
- 12 2. Describe the land on which the proposed work is to be done by legal description, property
13 address or similar description that will readily identify and definitely locate the proposed
14 building or work.
- 15 3. Provide the contractor's business name, address, phone number and current contractor
16 registration number (required if contractor has been selected).
- 17 4. Be accompanied by construction documents, including plans, diagrams, computations
18 and specifications, equipment schedules and other data as required in Sections 114.2 and
19 114.3.
- 20 5. State the valuation of the mechanical work to be done. The valuation of the mechanical
21 work is the estimated current value of all labor and material, whether actually paid for or
22 not, for which the permit is sought.

- 1 6. Be signed by the owner of the property or building, or the owner's authorized agent, who
- 2 may be required to submit evidence to indicate such authority.
- 3 7. Give such other data and information as may be required by the code official.
- 4 8. State the name of the owner and contractor and the name, address and phone number of a
- 5 contact person.
- 6 9. Substantially conform with applicable law in effect on the date described in Section
- 7 R101.3, as modified by any exception.

8 **114.2 Construction documents.** Construction documents shall be submitted in one or more sets
9 with each application for a permit, or shall be submitted in electronic format determined by the
10 code official. The code official may require plans, computations and specifications to be
11 prepared and designed by an engineer or architect licensed by the state to practice as such.
12 Projects having a total mechanical valuation of \$50,000 or larger shall have a mechanical
13 engineering stamp and signature on each sheet.

14 **Exception:** A mechanical engineer's stamp or submission of construction documents is not
15 required if the code official finds that the nature of the work applied for is such that review of
16 construction documents is not necessary to obtain compliance with this code.

17 **114.3 Information on construction documents.**

18 **114.3.1 Clarity of plans.** Plans shall be drawn to a clearly indicated and commonly accepted
19 scale in a format determined by the code official.

20 **114.3.2 Fire-resistive notes.** The code official may require that plans for buildings more than
21 two stories in height of other than Group R-3 and Group U occupancies indicate how
22 required structural and fire-resistive integrity will be maintained where a penetration will be

1 made for electrical, mechanical, plumbing and communication conduits, pipes and similar
2 systems.

3 **114.3.3 Information required on plans.** The plans or specifications shall show the
4 following:

- 5 1. Layout for each floor with dimensions of all working spaces and a legend of all
6 symbols used.
- 7 2. Location, size and material of all piping.
- 8 3. Location, size and materials of all air ducts, air inlets and air outlets.
- 9 4. Location of all fans, warm-air furnaces, boilers, absorption units, refrigerant
10 compressors and condensers and the weight of all pieces of such equipment weighing
11 200 pounds or more.
- 12 5. Rated capacity or horsepower and efficiency rating of all boilers, warm-air furnaces,
13 heat exchangers, blower fans, refrigerant compressors and absorption units. See also
14 the *International Energy Conservation Code*.
- 15 6. Location, size and material of all combustion products vents and chimneys.
- 16 7. Location and area of all ventilation and combustion air openings and ducts.
- 17 8. Location of all air dampers and fire shutters.
- 18 9. The first sheet of each set of plans and specifications shall show the address of the
19 proposed work and the name and address of the owner or lessee of the premises.
- 20 10. Architectural drawings, typical envelope cross sections and other drawings or data
21 may be required to support system sizing calculations or other thermal requirements
22 of this code or the *International Energy Conservation Code*.

1 **115.2 Revisions to the permit.** When changes to the approved work are made during
2 construction, approval of the code official shall be obtained prior to execution. The building or
3 mechanical inspector may approve minor changes for work not reducing the structural strength
4 or fire and life safety of the structure. The building or mechanical inspector shall determine if it
5 is necessary to revise the approved construction documents. If revised plans are required,
6 changes shall be submitted to and approved by the code official, accompanied by fees specified
7 in the Seattle Municipal Code, Title 22, Subtitle IX, Permit Fees prior to occupancy. All changes
8 shall conform to the requirements of this code and other pertinent laws and ordinances and other
9 issued permits.

10 Minor changes shall not incur additional fees if these changes do not (1) add to the general
11 scope of work; (2) change the basic design concept; (3) involve major relocation of equipment,
12 ducts, or pipes; (4) substantially alter approved equipment size; or (5) require extensive re-
13 view of the plans and specifications.

14 **115.3 Cancellation of permit applications.** Applications may be cancelled if no permit is
15 issued by the earlier of the following: (1) twelve months following the date of application; or (2)
16 sixty days after the date of written notice that the permit is ready to be issued. After cancellation,
17 construction documents may be returned to the applicant or destroyed by the code official.

18 The code official shall notify the applicant in writing at least 30 days before the application is
19 cancelled. The notice shall specify a date by which a request for extension must be submitted in
20 order to avoid cancellation. The date shall be at least two weeks prior to the date on which the
21 application will be cancelled.

22 **115.4 Extensions prior to permit issuance.** At the discretion of the code official, applications
23 for projects that require more than 12 months to review and approve may be extended for a

1 period that provides reasonable time to complete the review and approval, but in no case longer
2 than 24 months from the date of the original application. No application may be extended more
3 than once. After cancellation, the applicant shall submit a new application and pay a new fee to
4 restart the permit process.

5 Notwithstanding other provisions of this code, applications may be extended where issuance
6 of the permit is delayed by litigation, preparation of environmental impact statements, appeals,
7 strikes or other causes related to the application that are beyond the applicant's control, or while
8 the applicant is making progress toward issuance of a master use permit.

9 **115.5 Retention of plans.** One set of approved plans, which may be on microfilm or in
10 electronic format, shall be retained by the code official. One set of approved plans shall be
11 returned to the applicant and shall be kept at the site of the building or work for use by the
12 inspection personnel at all times when the work authorized is in progress.

13 **115.6 Validity of permit.** The issuance or granting of a permit or approval of construction
14 documents shall:

- 15 1. Not be construed to be a permit for, or an approval of, any violation of any of the
16 provisions of this code or other pertinent laws and ordinances.
- 17 2. Not prevent the code official from requiring the correction of errors in the construction
18 documents, or from preventing building operations being carried on thereunder when in
19 violation of this code or of other pertinent laws and ordinances of the City.
- 20 3. Not prevent the code official from requiring correction of conditions found to be in
21 violation of this code or other pertinent laws and ordinances of the City, or
- 22 4. Not be construed to extend the period of time for which any such permit is issued or
23 otherwise affect any period of time for compliance specified in any notice or order issued

1 by the code official or other administrative authority requiring the correction of any such
2 conditions.

3 **115.7 Expiration of permits.** Authority to do the work authorized by a permit expires 18
4 months from the date of issuance. An approved renewal extends the life of a permit for an
5 additional 18 months from the prior expiration date. An approved reestablishment extends the
6 life of the permit for 18 months from the date the permit expired.

7 **Exceptions:**

- 8 1. Initial permits for major construction projects that require more than 18 months to
9 complete may be issued for a period that provides reasonable time to complete the
10 work, according to an approved construction schedule. The building official may
11 authorize a permit expiration date not to exceed three years from the date of issuance.
- 12 2. The code official may issue permits that expire in less than 18 months if the code
13 official determines a shorter period is appropriate to complete the work.

14 **115.8 Renewal of permits.** Permits may be renewed and renewed permits may be further
15 renewed by the code official, if the following conditions are met:

- 16 1. Application for renewal is made within the 30 day period immediately preceding the date
17 of expiration of the permit; and
- 18 2. If the project has had an associated discretionary Land Use review, and the land use
19 approval has not expired; and
- 20 3. If an application for renewal is made more than 18 months after the date of mandatory
21 compliance with a new or revised edition of this code, the permit shall not be renewed
22 unless:

1 3.1 The code official determines that the permit complies, or is modified to comply
2 with the Seattle Mechanical, Fuel Gas and Energy codes in effect on the date of
3 application for renewal; or

4 3.2 The work authorized by the permit is substantially underway and progressing at a
5 rate approved by the building official. “Substantially underway” means that
6 normally required inspections have been approved for work such as foundations,
7 framing, mechanical, insulation and finish work is being completed on a continuing
8 basis; or

9 3.3 Commencement or completion of the work authorized by the permit is delayed by
10 litigation, appeals, strikes or other extraordinary circumstances related to the work
11 authorized by the permit, beyond the permit holder’s control, subject to approval by
12 the code official.

13 **115.9 Reestablishment of expired permits.** A new permit is required to complete work if a
14 permit has expired and was not renewed.

15 **Exception:** A permit that expired less than one year prior to the date of a request for
16 reestablishment may be reestablished upon approval of the code official if it complies with
17 Items 2 and 3 of Section 115.8. Once re-established the permit will not be considered to
18 have expired. The new expiration date of a re-established permit shall be determined in
19 accordance with Section 115.7.

20 **115.10 Revocation of mechanical permits.** Whenever the code official determines there are
21 grounds for revoking a permit, the code official may issue a notice of revocation. The notice of
22 revocation shall identify the reason for the proposed revocation, including, but not limited to, the
23 violations, the conditions violated, and any alleged false or misleading information provided.

1 **115.10.1 Standards for revocation.** The code official may revoke a permit if:

- 2 1. The code or the permit has been or is being violated and issuance of a notice of
3 violation or stop work order has been or would be ineffective to secure compliance
4 because of circumstances related to the violation; or
5 2. The permit was obtained with false or misleading information.

6 **115.10.2 Service of notice of revocation.** The notice of revocation shall be served upon the
7 owner, agent or other responsible person by personal service or regular first class mail
8 addressed to the last known address of such person or if no address is available after
9 reasonable inquiry, the notice may be posted in a conspicuous place on the premises. The
10 notice may also be posted if served by personal service or first class mail.

11 **115.10.3 Effective date of revocation.** The code official shall identify in the notice of
12 revocation a date certain on which the revocation will take effect. This date may be stayed
13 pending complete review by the code official pursuant to Section 115.10.4.

14 **115.10.4 Review by the code official for notice of revocation.** Any person aggrieved by a
15 notice of revocation may obtain a review by making a request in writing to the code official
16 within three business days of the date of service of the notice of revocation. The review shall
17 occur within five business days after receipt by the building official of the request for review.
18 Any person affected by the notice of revocation may submit additional information to the
19 building official for consideration as part of the review at any time prior to the review.

20 **115.10.4.1 Review procedure.** The review will be made by a representative of the code
21 official who will review all additional information received and may also request a site
22 visit. After the review, the code official may:

1 code official that work requiring inspection as specified in this section and Section 120 is ready
2 for inspection.

3 **116.3 Access for inspection.** The permit holder and the person requesting any inspections
4 required by this code shall provide access to and means for proper inspection of such work,
5 including safety equipment required by the Washington Industrial Safety and Health Agency.
6 The work shall remain accessible and exposed for inspection purposes until approved by the
7 code official. Neither the code official nor the City shall be liable for expense entailed in the
8 required removal or replacement of any material to allow inspection.

9 **116.4 Inspection record.** Work requiring a mechanical permit shall not be commenced until the
10 permit holder or the permit holder's agent has posted an inspection record in a conspicuous place
11 on the premises and in a position that allows the code official to conveniently make the required
12 entries regarding inspection of the work. This record shall be maintained in such a position by
13 the permit holder or the permit holder's agent until final approval has been granted by the code
14 official.

15 **116.5 Approvals required.** No work shall be done on any part of the building or structure
16 beyond the point indicated in each successive inspection without first obtaining the written
17 approval of the code official.

18 **116.5.1 Effect of approval.** Approval as a result of an inspection is not approval of any
19 violation of the provisions of this code or of other pertinent laws and ordinances of the City.
20 Inspections presuming to give authority to violate or cancel the provisions of this code or of
21 other pertinent laws and ordinances of the City are not valid.

22 **116.6 Final inspection.** When the installation of a mechanical system is complete, an additional
23 and final inspection shall be made.

1 **116.7 Operation of mechanical equipment.** The requirements of this section do not prohibit the
2 operation of any mechanical systems installed to replace existing equipment or fixtures serving
3 an occupied portion of the building in the event a request for inspection of such equipment or
4 fixture has been filed with the code official not more than 48 hours after such replacement work
5 is completed, and before any portion of such mechanical system is concealed by any permanent
6 portion of the building.

7 **116.8 Special investigation.** If work that requires a permit or approval is commenced or
8 performed prior to making formal application and receiving the code official's permission to
9 proceed, the code official may make a special investigation inspection before a permit is issued
10 for the work. If a special investigation is made, a special investigation fee may be assessed in
11 accordance with the Fee Subtitle.

12 **116.9 Reinspections.** The code official may require a reinspection if work for which inspection
13 is called is not complete, required corrections are not made, the inspection record is not properly
14 posted on the work site, the approved plans are not readily available to the inspector, access is
15 not provided on the date for which inspection is requested, if deviations from construction
16 documents that require the approval of the code official have been made without proper
17 approval, or as otherwise required by the code official.

18 **116.9.1 Compliance with Section 104.4.** For the purpose of determining compliance with
19 Section 104.4, Maintenance, the code official or the fire chief may cause any structure or
20 system to be reinspected.

21 **116.9.2 Reinspection fee.** The code official may assess a reinspection fee as set forth in the
22 Seattle Municipal Code, Title 22, Subtitle IX, Permit Fees for any action for which

1 reinspection is required. In instances where reinspection fees have been assessed, no
2 additional inspection of the work will be performed until the required fees have been paid.

3 **SECTION 117**

4 **CONNECTION APPROVAL**

5 **117.1 Energy connections.** No person shall make connections from a source of energy fuel to a
6 mechanical system or equipment regulated by this code for which a permit is required until
7 approved by the code official.

8 **117.2 Temporary connections.** The code official may authorize temporary connection of the
9 mechanical equipment to the source of energy fuel for the purpose of testing the equipment, or
10 for use under a temporary certificate of occupancy.

11 **SECTION 118**

12 **FEES**

13 **118.1 Fees.** A fee for each mechanical permit and for other activities related to the enforcement
14 of this code shall be paid as set forth in the Seattle Municipal Code, Title 22, Subtitle IX, Permit
15 Fees.

16 Section 3. The following sections of Chapter 2 of the International Fuel Gas Code, 2015
17 Edition, are amended as follows:

18
19 **CHAPTER 2**

20 **DEFINITIONS**

21
22 **SECTION 201 (IFGC)**

23 **GENERAL**

1 ***

2 **201.3 Terms defined in other codes.** Where terms are not defined in this code and are defined
3 in the *International Building Code, International Fire Code, International Mechanical Code* or
4 ~~((*International*))~~ *Uniform Plumbing Code*, such terms shall have meanings ascribed to them as in
5 those codes.

6 ***

7 SECTION 202 (IFGC)

8 GENERAL DEFINITIONS

9 ***

10
11 **~~BOILER~~**~~((, **LOW PRESSURE**)).~~ A closed vessel in which water is heated, steam is generated,
12 steam is superheated, or any combination thereof, under pressure or vacuum by the direct
13 application of heat. The term boiler shall also include fired units for heating or vaporizing liquids
14 other than water where these systems are complete within themselves. ~~((A self-contained~~
15 ~~appliance for supplying steam or hot water.~~

16 ~~**Hot water heating boiler.** A boiler in which no steam is generated, from which hot water is~~
17 ~~circulated for heating purposes and then returned to the boiler, and that operates at water~~
18 ~~pressures not exceeding 160 pounds per square inch gauge (psig) (1100 kPa gauge) and at~~
19 ~~water temperatures not exceeding 250°F (121°C) at or near the boiler outlet.~~

20 ~~**Hot water supply boiler.** A boiler, completely filled with water, which furnishes hot water~~
21 ~~to be used externally to itself, and that operates at water pressures not exceeding 160 psig~~
22 ~~(1100 kPa gauge) and at water temperatures not exceeding 250°F (121°C) at or near the~~
23 ~~boiler outlet.~~

1 **UNSAFE.** Constituting a fire or health hazard or otherwise dangerous to human life, or
2 constituting a hazard to safety, health or public welfare.

3 ***

4 **[M] WATER HEATER.** Any heating *appliance* or *equipment* that heats potable water and
5 supplies such water to the potable hot water distribution system, and includes only those
6 appliances that do not exceed pressure of 160 pounds per square inch (1103 kPa), volume of 120
7 gallons (454 L) and a heat input of 200,000 Btu/hr (58.6 kW). Appliances and equipment that
8 exceed these values are classified as boilers.

9
10 Section 4. The following sections of Chapter 3 of the International Fuel Gas Code, 2015
11 Edition, are amended as follows:

12
13 **CHAPTER 3**

14 **GENERAL REGULATIONS**

15
16 **SECTION 301 (IFGC)**

17 **GENERAL**

18 **301.1 Scope.** This chapter shall govern the approval and installation of all *equipment* and
19 appliances that comprise parts of the installations regulated by this code in accordance with
20 Section ((401.2)) 103.1. See also the *International Fire Code*.

21 **301.1.1 Other fuels.** The requirements for combustion and dilution air for gas-fired
22 appliances shall be governed by Section 304. The requirements for combustion and dilution
23 air for appliances operating with fuels other than fuel gas shall be regulated by the

1 International Mechanical Code. The standards for liquefied petroleum gas installations shall
2 be the 2011 Edition of NFPA 58 (Liquefied Petroleum Gas Code) and the 2012 Edition of
3 ANSI Z223.1/NFPA 54 (National Fuel Gas Code).

4 ***

5
6 **SECTION 303 (IFGC)**
7 **APPLIANCE LOCATION**

8 ***

9 **303.7 Pit locations.** Appliances installed in pits or excavations shall not come in direct contact
10 with the surrounding soil. The sides of the pit or excavation shall be held back a minimum of 12
11 inches (305 mm) from the *appliance*, and a minimum of 30 inches (762 mm) on the control side.
12 Where the depth exceeds 12 inches (305 mm) below adjoining grade, the walls of the pit or
13 excavation shall be lined with concrete or masonry, such concrete or masonry shall extend a
14 minimum of 4 inches (102 mm) above adjoining grade and shall have sufficient lateral load-
15 bearing capacity to resist collapse. The *appliance* shall be protected from flooding in an
16 *approved* manner.

17 **[B] 303.8 Installation of pipes or ducts conveying gases, vapors or liquids in hoistways,**
18 **machine rooms or machinery spaces.** Pipes and ducts conveying gases, vapors or liquids are
19 not permitted to be installed in elevator hoistways, elevator machine rooms and elevator
20 machinery spaces.

21 **Exceptions:**

- 22 1. Only ducts for heating, cooling, ventilating and venting these spaces are permitted to
23 be installed in the hoistway, machine room and machinery space.

1 **[M] 306.4.1 Electrical requirements.** A luminaire controlled by a switch located at the
2 required passageway opening and a receptacle outlet shall be provided at or near the
3 *appliance* location in accordance with (~~(NEPA 70)~~) the *Seattle Electrical Code*.

4 **[M] 306.5 Equipment and appliances on roofs or elevated structures.** Where equipment or
5 appliances requiring access (~~(or appliances)~~) are located on an elevated structure or the roof of a
6 building such that personnel will have to climb higher than 16 feet (4877 mm) above grade to
7 access such equipment or appliances, an interior or exterior means of access shall be provided.

8 Such access shall not require climbing over obstructions greater than 30 inches (762 mm) in
9 height or walking on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-
10 percent slope). Such access shall not require the use of portable ladders.

11 Permanent ladders installed to provide the required *access* shall comply with the following
12 minimum design criteria:

- 13 1. The side railing shall extend above the parapet or roof edge not less than (~~(30)~~)42 inches
14 (~~((762))~~) 1067 mm).
- 15 2. Ladders shall have rung spacing not to exceed (~~(44)~~)12 inches (~~((356))~~)305 mm) on center.
16 The upper-most rung shall be not more than 24 inches (610 mm) below the upper edge of
17 the roof hatch, roof or parapet, as applicable.
- 18 3. Ladders shall have a toe spacing not less than (~~(6)~~)7 inches (~~((152))~~) 178 mm) deep.
- 19 4. There shall be not less than 18 inches (457 mm) between rails.
- 20 5. Rungs shall have a diameter not less than 0.75-inch (19 mm) and be capable of
21 withstanding a 300-pound (136.1 kg) load.
- 22 6. Ladders over 30 feet (9144 mm) in height shall be provided with offset sections and
23 landings capable of withstanding 100 pounds per square foot (488.2 kg/m²). Landing

1 dimensions shall be not less than 18 inches (457 mm) and not less than the width of the
2 ladder served. A guard rail shall be provided on all open sides of the landing.

3 7. Climbing clearance. The distance from the centerline of the rungs to the nearest permanent
4 object on the climbing side of the ladder shall be not less than 30 inches (762 mm)
5 measured perpendicular to the rungs. This distance shall be maintained from the point of
6 ladder access to the bottom of the roof hatch. A minimum clear width of 15 inches (381
7 mm) shall be provided on both sides of the ladder measured from the midpoint of and
8 parallel with the rungs, except where cages or wells are installed.

9 8. Landing required. The ladder shall be provided with a clear and unobstructed bottom
10 landing area having a minimum dimension of 30 inches by 30 inches (762 mm by 762 mm)
11 centered in front of the ladder.

12 9. Ladders shall be protected against corrosion by *approved* means.

13 10. Access to ladders shall be provided at all times.

Interpretation: Item 10 allows access to ladders to be restricted to authorized personnel,
and prohibits storage that blocks or restricts access to the ladder.

14
15 Catwalks installed to provide the required *access* shall be not less than 24 inches (610 mm)
16 wide and shall have railings as required for service platforms.

17 **Exception:** This section shall not apply to Group R-3 occupancies.

18 **[M] 306.5.1 Sloped roofs.** Where appliances, *equipment*, fans or other components that
19 require service are installed on a roof having a slope of 3 units vertical in 12 units horizontal
20 (25-percent slope) or greater and having an edge more than 30 inches (762 mm) above grade
21 at such edge, a level platform shall be provided on each side of the *appliance* or *equipment* to

1 which *access* is required for service, repair or maintenance. The platform shall be not less
2 than 30 inches (762 mm) in any dimension and shall be provided with guards. The guards
3 shall extend not less than 42 inches (1067 mm) above the platform, shall be constructed so as
4 to prevent the passage of a 21-inch-diameter (533 mm) sphere and shall comply with the
5 loading requirements for guards specified in the *International Building Code*. *Access* shall
6 not require walking on roofs having a slope greater than 4 units vertical in 12 units horizontal
7 (33-percent slope). Where *access* involves obstructions greater than 30 inches (762 mm) in
8 height, such obstructions shall be provided with ladders installed in accordance with Section
9 306.5 or stairways installed in accordance with the requirements specified in the
10 *International Building Code* in the path of travel to and from appliances, fans or *equipment*
11 requiring service.

12 **[M] 306.5.2 Electrical requirements.** A receptacle outlet shall be provided at or near the
13 *appliance* location in accordance with (~~NEPA 70~~) the *Seattle Electrical Code*.

14 ***

15 SECTION 307 (IFGC)

16 CONDENSATE DISPOSAL

17 ***

18 **307.2 Fuel-burning appliances.** Liquid combustion byproducts of condensing appliances shall
19 be collected, pH-neutralized and discharged to an *approved* plumbing fixture or disposal area in
20 accordance with the manufacturer's instructions. Condensate *pipng* shall be of *approved*
21 corrosion-resistant material and shall be not smaller than the drain connection on the *appliance*.
22 Such *pipng* shall maintain a minimum slope in the direction of discharge of not less than one-
23 eighth unit vertical in 12 units horizontal (1-percent slope).

1 **[M] 307.3 Drain pipe materials and sizes.** Components of the condensate disposal system shall
2 be cast iron, galvanized steel, copper, cross-linked polyethylene, polyethylene, ABS, CPVC PVC
3 or polypropylene pipe or tubing. Components shall be selected for the pressure and temperature
4 rating of the installation. Joints and connections shall be made in accordance with the applicable
5 provisions of Chapter 7 of the (~~International~~) Uniform Plumbing Code relative to the material
6 type. Condensate waste and drain line size shall be not less than 3/4 inch (19 mm) internal
7 diameter and shall not decrease in size from the drain pan connection to the place of condensate
8 disposal. Where the drain pipes from more than one unit are manifolded together for condensate
9 drainage, the pipe or tubing shall be sized in accordance with an *approved* method.

10
11 ***

12 SECTION 309 (IFGC)

13 ELECTRICAL

14 **309.1 Grounding.** Gas *pipng* shall not be used as a grounding electrode.

15 **309.2 Connections.** Electrical connections between appliances and the building wiring,
16 including the grounding of the appliances, shall conform to (~~NEPA 70~~) the Seattle Electrical
17 Code.

18 ***

19 Section 5. The following sections of Chapter 4 of the International Fuel Gas Code, 2015
20 Edition, are amended as follows:

21 CHAPTER 4

22 GAS PIPING INSTALLATIONS

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SECTION 401 (IFGC)

GENERAL

~~[W]((401.9 Identification. Each length of pipe and tubing and each pipe fitting, utilized in a fuel gas system, shall bear the identification of the manufacturer.))~~

SECTION 403 (IFGS)

PIPING MATERIALS

403.7 Workmanship and defects. Pipe, tubing and fittings shall be clear and free from cutting burrs and defects in structure or threading, and shall be thoroughly brushed, and chip and scale blown.

Defects in pipe, tubing and fittings shall not be repaired. Defective pipe, tubing and fittings shall be replaced. No gas piping shall be strained or pinched, and no appliance shall be supported by, or develop any strain or stress on, its supply piping.

403.10 Metallic piping joints and fittings. The type of *piping* joint used shall be suitable for the pressure-temperature conditions and shall be selected giving consideration to joint tightness and mechanical strength under the service conditions.

1 The joint shall be able to sustain the maximum end force caused by the internal pressure and any
2 additional forces caused by temperature expansion or contraction, vibration, fatigue or the weight
3 of the pipe and its contents.

4 **403.10.1 Pipe joints.** Pipe joints shall be threaded, flanged, brazed or welded. Where
5 nonferrous pipe is brazed, the brazing materials shall have a melting point in excess of
6 1,000°F (538°C). Brazing alloys shall not contain more than 0.05-percent phosphorus.

7 **403.10.1.1 Welding.** All welding in the piping system shall be done in accordance with
8 ASME Boiler and Pressure Vessel Code Section IX.

9 ***

10 SECTION 406 (IFGS)

11 INSPECTION, TESTING AND PURGING

12 **406.1 General.** Prior to acceptance and initial operation, all *piping* installations shall be visually
13 inspected and pressure tested to determine that the materials, design, fabrication and installation
14 practices comply with the requirements of this code.

15 **406.1.1 Inspections.** Inspection shall consist of visual examination during or after
16 manufacture, fabrication, assembly or pressure tests.

17 **406.1.2 Repairs and additions.** In the event repairs or additions are made after the pressure
18 test, the affected *piping* shall be tested. Minor repairs and additions, as determined by the
19 code official, are not required to be pressure tested provided that the work is inspected and
20 connections are tested with a noncorrosive leak-detecting fluid or other *approved* leak-
21 detecting methods.

22 ***

23 SECTION 413 (IFGC)

1 **[M] 614.8.4.2 Manufacturer's instructions.** The maximum length of the exhaust duct shall be
2 determined by the dryer manufacturer's installation instructions. The code official shall be
3 provided with a copy of the installation instructions for the make and model of the dryer. Where
4 the exhaust duct is to be concealed, the installation instructions shall be provided to the code
5 official prior to the concealment inspection. In the absence of fitting equivalent length
6 calculations from the clothes dryer manufacturer, Table 614.8.4.1 shall be utilized.

7 **Exception:** The maximum length of the duct may be increased in an engineered exhaust
8 system when a listed and labeled dryer exhaust booster fan is installed in accordance with the
9 manufacturer's installation instructions.

11 ***

12 SECTION 618 (IFGC)

13 ~~((FORCED-))AIR-HANDLING UNITS ((WARM-AIR-FURNACES))~~

14 ***

15 **618.4 Prohibited sources.** Outdoor or return air for forced-air heating and cooling systems shall
16 not be taken from the following locations:

- 17 1. Closer than 10 feet (3048 mm) from an *appliance* vent outlet, a vent opening from a
18 plumbing drainage system or the discharge outlet of an exhaust fan, unless the outlet is 3
19 feet (914 mm) above the outside air inlet.
- 20 2. Where there is the presence of objectionable odors, fumes or flammable vapors; or where
21 located less than 10 feet (3048 mm) above the surface of any abutting public way or
22 driveway; or where located at grade level by a sidewalk, street, alley or driveway.

1 3. A hazardous or insanitary location or a refrigeration machinery room as defined in the
2 *International Mechanical Code*.

3 4. A room or space, the volume of which is less than 25 percent of the entire volume served
4 by such system.

5 Where connected by a permanent opening having an area sized in accordance with
6 Section 618.2, adjoining rooms or spaces shall be considered as a single room or space for
7 the purpose of determining the volume of such rooms or spaces.

8 **Exception:** The minimum volume requirement shall not apply where the amount of
9 return air taken from a room or space is less than or equal to the amount of supply air
10 delivered to such room or space.

11 5. A room or space containing an *appliance* where such a room or space serves as the sole
12 source of return air.

13 **Exception:** This shall not apply where:

14 1. The *appliance* is a direct-vent *appliance* or an *appliance* not requiring a vent in
15 accordance with Section 501.8.

16 2. The room or space complies with the following requirements:

17 2.1. The return air shall be taken from a room or space having a volume
18 exceeding 1 cubic foot for each 10 Btu/h (9.6L/W) of combined input rating
19 of all fuel-burning appliances therein.

20 2.2. The volume of supply air discharged back into the same space shall be
21 approximately equal to the volume of return air taken from the space.

1 ~~shall be installed in accordance with the manufacturer's instructions. Water heaters utilizing~~
2 ~~fuels other than fuel gas shall be regulated by the *International Mechanical Code*.~~

3 ~~**624.1.1 Installation requirements.** The requirements for water heaters relative to sizing,~~
4 ~~relief valves, drain pans and scald protection shall be in accordance with the *International*~~
5 ~~*Plumbing Code*.~~

6 ~~**624.2 Water heaters utilized for space heating.** Water heaters utilized both to supply potable~~
7 ~~hot water and provide hot water for space heating applications shall be *listed* and *labeled* for~~
8 ~~such applications by the manufacturer and shall be installed in accordance with the~~
9 ~~manufacturer's instructions and the *International Plumbing Code*.)~~

10
11 ***

12 SECTION 631 (IFGC)

13 BOILERS

14 ~~**631.1 Standards.** Boilers shall ((be *listed* in accordance with the requirements of ANSI Z21.13~~
15 ~~or UL 795. If applicable, the boiler shall be designed and constructed in accordance with the~~
16 ~~requirements of ASME CSD-1 and as applicable, the ASME)) comply with the *Seattle Boiler*~~
17 ~~*and Pressure Vessel Code*((, Sections I, II, IV, V and IX and NFPA 85)).~~

18 ~~((**631.2 Installation.** In addition to the requirements of this code, the installation of boilers shall~~
19 ~~be in accordance with the manufacturer's instructions and the *International Mechanical Code*.~~
20 ~~Operating instructions of a permanent type shall be attached to the boiler. Boilers shall have all~~
21 ~~controls set, adjusted and tested by the installer. A complete control diagram together with~~
22 ~~complete boiler operating instructions shall be furnished by the installer. The manufacturer's~~
23 ~~rating data and the nameplate shall be attached to the boiler.~~

1 ~~631.3 Clearance to combustible materials.~~ Clearances to ~~combustible materials~~ shall be in
2 accordance with Section 308.4.)

3
4 **SECTION 632 (IFGC)**

5 **RESERVED**

6 ~~((EQUIPMENT INSTALLED IN EXISTING~~

7 ~~UNLISTED BOILERS~~

8 ~~632.1 General.~~ Gas ~~equipment~~ installed in existing unlisted boilers shall comply with Section
9 631.1 and shall be installed in accordance with the manufacturer's instructions and the
10 *International Mechanical Code.*)

11
12 ***

13 Section 8. The following section of Chapter 7 of the International Fuel Gas Code, 2015
14 Edition, is amended as follows:

15
16 **CHAPTER 7**
17 **GASEOUS HYDROGEN SYSTEMS**

18
19 ***

20 **SECTION 703 (IFGC)**

21 **GENERAL REQUIREMENTS**

22 ***

23 **[F] 703.6 Electrical wiring and equipment.** Electrical wiring and *equipment* shall comply with
24 ~~((NFPA 70))~~ the Seattle Electrical Code.

25 ***

