

ORDINANCE No.

118659

Council Bill No 1117

## ORDINANCE

Council Bill No 111797

AN ORDINANCE relating to Seattle Municipal Code Chapter 6.230, the Seattle Steam Engineers and Boiler Firemen Code, amending Sections 6.230.030, 6.230.040, 6.230.060, 6.230.070, 6.230.140 and 6.230.160, adding and amending definitions, amending the scope of licenses, amending the requirements for observation and inspection of boilers, and adding a new Section 6.230.045 adding a requirement for periodic refresher training for licensed steam engineers and boiler firemen.

OK

INDEXED

The City

Honorable President:

Your Committee on

to which was referred the within Council Bill, report that we have considered the same and

COMPTROLLER FILE No.

Introduced: JUN 30 1997	By: DRAGO
Referred: JUN 30 1997	To: Business, Economic & Community Development Committee
Referred:	To:
Referred:	To:
Reported:	Second Reading
Third Reading: JUL 14 1997	Signed: JUL 14 1997
Presented to Mayor: JUL 14 1997	Approved: JUL 17 1997
Returned to City Clerk: JUL 23 1997	Published: Full 11 pg.
Vetoed by Mayor:	Veto Published:
Passed over Veto:	Veto Sustained:

7-7-97 Hold

7-14-97 Full C

E

Council Bill No 111797

*Law Department*

INDEXED

# The City of Seattle--Legislative Department

## REPORT OF COMMITTEE

Date Reported  
and Adopted

able President:

committee on

ch was referred the within Council Bill No.

that we have considered the same and respectfully recommend that the same:

*BECA As per 3-0*

*-7-97 Hold one week*

*14-97 Full Council Action: ~~Hold one week~~*

*(Excused: Pageler)*



Committee Chair



ORDINANCE 118659

AN ORDINANCE relating to Seattle Municipal Code Chapter 6.230, the Seattle Steam Engineers and Boiler Firemen Code, amending Sections 6.230.030, 6.230.040, 6.230.060, 6.230.070, 6.230.140 and 6.230.160, adding and amending definitions, amending the scope of licenses, amending the requirements for observation and inspection of boilers, and adding a new Section 6.230.045 adding a requirement for periodic refresher training for licensed steam engineers and boiler firemen.

**Section 1.** Section 6.230.030 of the Seattle Municipal Code, which section was adopted by Ordinance 118049, is amended as follows:

**6.230.030 Definitions.**

Words and phrases used in this chapter relating to the regulation and licensing of steam engineers and boiler firemen shall have the following meanings:

((1-)) "Automatic boiler" means a boiler equipped with certain controls and limit devices as required by the Boiler Code.

((2-)) "Boiler" means a closed vessel used for heating water or other liquid or for generating steam or vapor by direct application of heat from combustible fuels or electricity.

((3-)) "Boiler Code" is the Seattle Boiler and Pressure Vessel Code (Title 22 Subtitle IVA of the Seattle Municipal Code) as now or hereafter amended.

((4-)) "Boiler plant" means one (((1-))) or more boilers and connecting piping and vessels within the same premises.

((5-)) "Boiler supervisor" means a steam engineer Grade I, II or III who has passed additional examinations as required by the Department pursuant to the provisions of this chapter.

"BHP" means brake horsepower.

((6-)) "City Boiler Inspector" means a City of Seattle Boiler/Pressure Systems Inspector employed by the Department.

((7-)) "Department" means the Department of Construction and Land Use.

((8-)) "Director" means the Director of the Department of Construction and Land Use.

((9-)) "Hoist and portable boiler" means a boiler used to provide steam for the operation of various types of equipment such as floating cranes, piledrivers and other similar types of equipment used in the construction industry.

((10-)) "Hot-water supply boiler" is a boiler having a volume exceeding ((one hundred twenty-))120(( )) gallons, or a heat input exceeding ((two hundred thousand ))200,000(( )) Btu per hour or an operating temperature not exceeding ((two hundred ten)) ((210)) 250°F. or a pressure not exceeding ((one hundred sixty)) 160 psi, that provides hot water to be used externally to itself.

"kBtuh" means thousand Btu per hour.

((11-)) "Low-pressure hot-water heating boiler" means a boiler in which water is heated at pressures not exceeding ((one hundred sixty pounds per square inch-))160 psi(( )) and temperatures not exceeding ((two hundred fifty degrees Fahrenheit-))250° F.(( ))).

((12-)) "Low-pressure steam-heating boiler" means a boiler operated at pressures not exceeding ((fifteen pounds per square inch-))15 psi(( )) for steam.

"Monitored boiler" is an Automatic Boiler that meets the requirements of Section 330 of the Boiler Code and is so certified by the Department.

1 ((13.)) "Out of service." A ((n-automatic)) boiler shall be "out of service" if it is  
2 manually shut down for inspection, maintenance, or repair, except for limited repairs and  
adjustments as set forth in Section 6.230.150 F.

3 ((14.)) "Power hot-water boiler" (high-temperature water boiler) means a boiler used for  
4 heating water or liquid to a pressure exceeding ((one hundred sixty pounds per square inch  
5 ))160 psi(( )) or to a temperature exceeding ((two hundred fifty degrees Fahrenheit ))250°  
6 F.(( ))).

7 ((15.)) "Power steam boiler" means a boiler in which steam or other vapor is generated at  
8 pressures exceeding ((fifteen pounds per square inch ))15 psi(( )). For purposes of this  
chapter the term shall not include a small power boiler.

9 "psi" means pounds per square inch.

10 ((16.)) "Small power boiler" means a boiler with pressures exceeding ((fifteen ))15(( ))  
11 psi) but not exceeding ((one hundred (100))) 150 psi and ((having less than three)) not  
12 exceeding ((hundred fifty thousand (350,000))) 800,000 BTU per hour heat ((output))  
13 input.

14 ((17.)) "Steam engine" means all prime movers using vapors from a boiler for motive  
15 power, steam-driven compressors, and steam pumps except steam pumps and similar  
16 auxiliaries used only as appurtenances for the operation of a boiler.

17 ((18.)) "Water heater" means a closed vessel used for heating water by direct application  
18 of heat from combustible fuels or electricity with a nominal water-containing capacity of  
19 ((one hundred twenty ))120(( )) gallons or less having a heat input not exceeding ((two  
20 hundred thousand ))200,000(( )) BTU per hour and an operating temperature not  
21 exceeding ((two hundred ten degrees Fahrenheit ))210° F.(( ))

22 **Section 2.** Section 6.230.040 of the Seattle Municipal Code, which section was  
last amended by Ordinance 117864, is amended as follows:

23 **6.230.040 License required-Renewal and Expiration.**

24 It is unlawful to have charge of, or operate or permit anyone to have charge of, or operate,  
25 any boiler or steam engine without a license(( )) to do so issued by the Director or his or  
26 her functional predecessor under this chapter. All licenses(( )) shall expire at midnight on  
the thirtieth day of September of each year, and shall not be transferred or assigned. All  
renewals shall specify the same grade and be subject to such conditions or limitations as  
may be provided under the license to be renewed. Licensed persons desiring a renewal  
must also meet the requirements of Section 6.230.045.

27 Renewal of a license which has been expired for more than one ((1)) year requires the  
28 holder to ((submit a new application and to be re-examined)) attend an approved refresher  
course as described in Section 6.230.045.

**Section 3.** The Seattle Municipal Code is amended to add a new Section  
6.230.045 as follows:

**6.230.045 Periodic refresher training required.**

Beginning January 1, 1998, all persons licensed by the department must attend an approved  
refresher course every five years. A document indicating proof of completion of the  
approved refresher course shall be provided to the Department.

**Section 4.** Section 6.230.060 of the Seattle Municipal Code, which section was last amended by Ordinance 118049, is amended as follows:

**6.230.060 Grades of licenses.**

A. The grades of steam engineers' and boiler firemen's licenses shall be as follows:

<del>((Grade One</del>	<del>(I)</del>	<del>Boiler Supervisor</del>
<del>Grade Two</del>	<del>(II)</del>	<del>Boiler Supervisor</del>
<del>Grade Three</del>	<del>(III)</del>	<del>Boiler Supervisor</del>
<del>Grade One</del>	<del>(I)</del>	<del>Steam Engineer</del>
<del>Grade Two</del>	<del>(II)</del>	<del>Steam Engineer</del>
<del>Grade Three</del>	<del>(III)</del>	<del>Steam Engineer</del>
<del>Grade Four</del>	<del>(IV)</del>	<del>Boiler Fireman</del>
<del>Grade Five</del>	<del>(V)</del>	<del>Small Power Boiler Fireman</del>
<del>Grade Five</del>	<del>(V)</del>	<del>Boiler Fireman))</del>

Grade I Boiler Supervisor,  
Grade II Boiler Supervisor,  
Grade III Boiler Supervisor,  
Grade I Steam Engineer,  
Grade II Steam Engineer,  
Grade III Steam Engineer,  
Grade IV Boiler Fireman,  
Small Power Boiler Fireman,  
Grade V Boiler Fireman.

(B. ~~The scope of each grade of license as related to the type of equipment and capacity subject to any limitations or conditions imposed pursuant to SMC Section 6.230.100 shall be as set forth in the following table:~~

<b>Maximum Capacity Allowable For Grades of License</b>			
	<b>Type of Equipment</b>		
	Steam Engine (brake horsepower)	Boilers (e) (BTU/hr. input total)	Small Power Boiler
Grade I (a) Steam Engineer	Unlimited	Unlimited	Unlimited
Grade II (a) Steam Engineer	1,500	300,000,000	Unlimited
Grade III (a) Steam Engineer	250	50,000,000	Unlimited
Grade IV (b) Boiler Fireman	0	20,000,000	(b)
Grade V (c) Boiler Fireman	0	5,000,000	(d)
Grade V Small Power Boiler Fireman	0	N/A	Less than 400,000 BTU/hr. input

Notes to table:

(a) A boiler supervisor license shall permit the licensee to supervise automatic and/or boilers up to the combined capacity of each individual boiler plant permitted by his/her steam engineer license.

(b) A Grade IV boiler fireman may operate a battery of not more than two (2) steam or vapor boilers with a combined capacity not greater than twenty million (20,000,000) BTU per hour total input; except, that when he/she is the head fireman on duty and under the direct (on site) supervision of a licensed steam engineer hereunder, he/she may operate a greater number of boilers, or boilers with greater capacity, for the purpose of training but not to exceed the capacity permitted by the license of such supervising engineer.

(c) A Grade V boiler fireman may operate electric power boilers limited to one hundred pounds per square inch (100 psi) and not exceeding two hundred kilowatts (200 kw) per hour input, provided that such boilers are not in battery.

(d) A Grade V small power fireman license shall permit the licensee to operate one (1) small power boiler.

(e) For license determination purposes, BTU per hour input ratings of a boiler shall be computed equal to burner input.))

B. The minimum requirements for operation of each type and capacity of equipment are as set forth in the following table.

TABLE A (POWER BOILERS/STEAM ENGINES)			
Category	Type / Limitations <sup>4</sup>	Minimum license required	Notes
All Boilers	Less than 100 psi and less than 100 kBtuh input	None	
Electric Boilers	Less than 1.5 cubic ft and 80 psi	None	
Electric Boilers	Less than 100 psi and 200 kw	Grade V Boiler Fireman on premises	1
All Boilers (except Small Power Boilers)	Each less than 1,000 kBtuh input, equipped per Table 320-A of the Boiler Code but not certified as Automatic. Steam boilers on same header: 2 maximum	Two hour checks by a Grade IV Boiler Fireman	2
Small Power Boilers	Maximum 800 kBtuh input, equipped per Table 320-A of the Boiler Code but not certified as Automatic. Steam boilers on same header: 2 maximum	Semiannual check by a Boiler Supervisor and twice daily checks by a Small Power Boiler Fireman or a Small Power Boiler Fireman on premises	3
All other Small Power Boilers	Maximum 800 kBtuh input. Steam boilers on same header: 2 maximum	Small Power Boiler Fireman on premises	3
Boilers certified as Automatic	Maximum 20,000 kBtuh input, steam boilers on same header: 2 maximum	Two hour checks by a Grade IV Boiler Fireman	2
Boilers certified as Automatic	Maximum 50,000 kBtuh input, no limitation on number of boilers on same header	Two hour checks by a Grade III Steam Engineer	
Boilers certified as Automatic	Maximum 300,000 kBtuh input, no limitation on number of boilers on same header	Two hour checks by a Grade II Steam Engineer	
Boilers certified as Automatic	Unlimited input	Two hour checks by a Grade I Steam Engineer	

Boilers certified as Monitored	Maximum 20,000 kBtuh input, steam boilers on same header: 2 maximum	Monthly checks by a Boiler Supervisor and twice daily checks by a Grade IV Boiler Fireman	2
Boilers certified as Monitored	Maximum 50,000 kBtuh input, no limitations for boilers on same header	Monthly checks by a Boiler Supervisor and twice daily checks by a Grade III Steam Engineer	
Boilers certified as Monitored	Maximum 300,000 kBtuh input, no limitations for boilers on same header	Monthly checks by a Grade II Boiler Supervisor and twice daily checks by a Grade II Steam Engineer	6
Boilers certified as Monitored	Unlimited input	Monthly checks by a Grade I Boiler Supervisor and twice daily checks by a Grade I Steam Engineer	6
All other boilers	Maximum 20,000 kBtuh input, steam boilers on same header: 2 maximum	Constant attendance by a Grade IV Boiler Fireman	2
All other boilers	Maximum 50,000 kBtuh input, no limitations for boilers on same header	Constant attendance by a Grade III Steam Engineer	
All other boilers	Maximum 300,000 kBtuh input, no limitations for boilers on same header	Constant attendance by a Grade II Steam Engineer	
All other boilers	Unlimited input	Constant attendance by a Grade I Steam Engineer	
Steam engines	Maximum 250 bhp	Constant attendance by a Grade III Steam Engineer	
Steam engines	Maximum 1,500 bhp	Constant attendance by a Grade II Steam Engineer	
Steam engines	Unlimited	Constant attendance by a Grade I Steam Engineer	

**TABLE B (LOW PRESSURE BOILERS)**

Category	Type / Limitations <sup>4</sup>	Minimum. license required	Notes
All boilers	Maximum input 2,500 kBtuh	No license required	

Boilers certified as Automatic	Maximum input 5,000 kBtuh	Monthly checks by a Boiler Supervisor, or quarterly checks by a Boiler Supervisor and twice daily checks by a Grade V Boiler Fireman, or a Grade V Boiler Fireman on premises	1
Boilers certified as Automatic	Maximum input exceeds 5,000 kBtuh but does not exceed 20,000 kBtuh. Steam boilers on same header: 2 maximum	Quarterly checks by a Boiler Supervisor and twice daily checks by a Grade IV Boiler Fireman	2
Boilers certified as Automatic	Maximum input exceeds 20,000 kBtuh but does not exceed 50,000 kBtuh. No limitation on boilers on same header	Quarterly checks by a Boiler Supervisor and twice daily checks by a Grade III Steam Engineer	
Boilers certified as Automatic	Maximum input exceeds 50,000 kBtuh but does not exceed 300,000 kBtuh. No limitation on boilers on same header	Quarterly checks by a Grade II Boiler Supervisor and twice daily checks by a Grade II Boiler Supervisor	
Boilers certified as Automatic	Maximum input exceeds 300,000 kBtuh. No limitation on boilers on same header	Quarterly checks by a Grade I Boiler Supervisor and twice daily checks by a Grade I Steam Engineer	
Boilers certified as Monitored	Maximum input exceeds 5,000 kBtuh but does not exceed 20,000 kBtuh. Steam boilers on same header: 2 maximum	Semiannual checks by a Boiler Supervisor and twice daily checks by a Grade IV Boiler Fireman	2
Boilers certified as Monitored	Maximum input exceeds 20,000 kBtuh but does not exceed 50,000 kBtuh. No limitation on boilers on same header	Semiannual checks by a Boiler Supervisor and twice daily checks by a Grade III Steam Engineer	
Boilers certified as Monitored	Maximum input exceeds 50,000 kBtuh but does not exceed 300,000 kBtuh. No limitation on boilers on same header	Semiannual checks by a Grade II Boiler Supervisor and twice daily checks by a Grade II Steam Engineer	6
Boilers certified as Monitored	Maximum input exceeds 300,000 kBtuh. No limitation on boilers on same header	Semiannual checks by a Grade I Boiler Supervisor and twice daily checks by a Grade I Steam Engineer	6
All other boilers	Maximum input exceeds 2,500 kBtuh but does not exceed 5,000 kBtuh	Grade V Boiler Fireman on premises	5



All other boilers	Maximum input exceeds 5,000 kBtuh but does not exceed 20,000 kBtuh. Steam boilers on same header: 2 maximum	Constant attendance by a Grade IV Boiler Fireman	2
All other boilers	Maximum input exceeds 20,000 kBtuh but does not exceed 50,000 kBtuh. No limitation on boilers on same header	Constant attendance by a Grade III Steam Engineer	
All other boilers	Maximum input exceeds 50,000 kBtuh but does not exceed 300,000 kBtuh. No limitation on boilers on same header	Constant attendance by a Grade II Steam Engineer	
All other boilers	Maximum input exceeds 300,000 kBtuh. No limitation on boilers on same header	Constant attendance by a Grade I Steam Engineer	

Footnotes to Tables A and B:

1. A Grade V Boiler Fireman can also operate a low pressure boiler up to 5,000 kBtuh. A Grade V Boiler Fireman cannot operate steam boilers in battery
2. A Grade IV Boiler Fireman may operate a battery of not more than two steam or vapor boilers with a combined capacity no greater than 20,000 kBtuh total input; except when he/she is the head fireman on duty and under the direct (on site) supervision of a licensed steam engineer hereunder, he/she may operate a greater number of boilers, or boilers with greater capacity, for the purpose of training but not to exceed the capacity permitted by the license of such supervising engineer
3. A Small Power Boiler Fireman license shall permit the licensee to operate no more than two small power boilers subject to the limitation in Table A.
4. For license determination purposes, kBtuh or KW input ratings of a boiler shall be computed:
  - a) as equal to burner input as rated and labeled by the burner manufacturer for gas, propane and similar burners. Where actual fuel flow during burner operation at the maximum firing rate can be reliably measured, the burner input may be computed by such method.
  - b) as equal to the gallons-per-hour rating of the fuel nozzle or nozzles for oil burners
  - c) as equal to the electrical input in KW as rated and labeled by the boiler manufacturer for electric boilers
  - d) as the greater of all computed inputs in the case of multiple fuel burners
  - e) as the cumulative input, as measured in a), b), c), or d) above, for boilers in battery (connected to a common header). For boilers in battery so wired electrically such that only a single boiler can operate at a given time, the license requirement for such battery shall be

determined by the most restrictive individual license requirement for any boiler in the battery.

5. A Grade V Boiler Fireman can also operate an electric boiler less than 100 psi and 200 kw. A Grade V Boiler Fireman cannot operate steam boilers in battery

6. A Grade III Steam Engineer can attend to Grade II Monitored boilers and a Grade II Steam Engineer can attend to Grade I boilers when such boilers are checked weekly by a Boiler Supervisor

**Section 5.** Section 6.230.070 of the Seattle Municipal Code, which section was last amended by Ordinance 118398, is amended as follows:

**6.230.070 Issuance of licenses.**

Persons desiring a license described in Section 6.230.060 shall make written application to the Department on the forms provided by the Department. Such application shall include the applicant's full name and address. Applications shall be accompanied by a receipt showing payment of the required examination fee as provided under Chapter 22.901J.

A. Applicants for a steam engineer's license, Grade I, II, or III shall show ~~((by competent evidence))~~ to the satisfaction of the Director one ~~((4))~~ of the following:

1. That he/she has been employed at least three ~~((3))~~ years in a position directly responsible for the care and operation of boilers or steam engines, or in the design or supervision of boilers, boiler systems, boiler firing and automatic control and safety systems, or under the direct supervision of a licensed steam engineer, Grade I, II or III; or

2. That he/she has at least three ~~((3))~~ years of practical experience as a machinist apprentice in a steam engine works together with one ~~((4))~~ year of employment in the direct care and operation of boilers and steam engines; or

3. That he/she has graduated from a recognized school of technology and has had at least one ~~((4))~~ year of employment in the direct care and operation of boilers and steam engines.

Completion of a ~~((boiler fireman's))~~ course as described in C.2 below, approved by the Department or its functional predecessor shall be the equivalent of one ~~((4))~~ year of practical experience under subsections 1 or 2 above, however, each applicant will be entitled to only one ~~((4))~~ such credit.

B. Any licensed Grade I, II or III steam engineer may apply for an upgrade to Boiler Supervisor, Grade I, II or III. Such applicant shall show ~~((by competent evidence))~~ to the satisfaction of the Director that he/she has been employed at least three ~~((3))~~ years in one ~~((4))~~ of the following:

1. In a position directly responsible for the care or operation of boilers, or steam engines;

2. In the design or supervision of boilers, boiler systems, boiler firing, and automatic control and safety systems;

3. In the direct supervision of a licensed Grade I, II or III steam engineer.

C. Applicants for a Grade IV boiler fireman license shall show ~~((by competent evidence))~~ to the satisfaction of the Director one ~~((4))~~ of the following:

1. One ~~((4))~~ year of practical experience in the care and operation of a boiler; or

2. Completion of an in-service training course in the fundamentals of boiler operation as approved by the Department or its functional predecessor which shall include at least forty (40) hours of classroom work together with;

a. eighty ~~((80))~~ hours of on-site training relating to the care and operation of boilers under the direct supervision of a steam engineer with a license of Grade I, II or III; or,

b. forty (~~((40))~~) hours of lab work at a facility approved by the Department.

D. Applicants for a Grade III Steam Engineer License limited to hoist and portable boilers, shall show (~~((by competent evidence))~~) to the satisfaction of the Director, one (1) of the following:

1. Three (~~((3))~~) years of practical experience in the care and operation of boilers and steam engines; or

2. Completion of an in-service training course on the fundamentals of boiler operation, as approved by the Department or its functional predecessor which shall include fifty-five (~~((55))~~) hours of classroom work, together with (~~((one hundred twenty-))~~)120(~~((9))~~) hours of work relating to the care and operation of a minimum of two (~~((2))~~) separately located hoist and portable boilers, under the direct supervision of a steam engineer with a license of Grade I, II or III.

E. All persons applying for a license under this chapter shall be examined by the Department according to the provisions of Section 6.230.100. Upon determination by the Department that the applicant has passed the applicable examination and is otherwise qualified under this chapter, including payment by the applicant of the license fee, the Director shall issue the license. In lieu of a qualifying technical examination, the Director may accept as evidence of meeting the applicable (~~((ordinance))~~) requirements of Section 6.230.100, a valid and current license issued by the City of Tacoma which maintains a licensing and testing program that, in the judgment of the Director, meets or exceeds City of Seattle requirements.

**Section 6.** Section 6.230.140 of the Seattle Municipal Code, which section was last amended by Ordinance 117864, is amended as follows:

**6.230.140 Duties of steam engineers and boiler firemen.**

A licensed steam engineer and boiler fireman shall perform the following duties in connection with his/her operation and maintenance of boilers and steam engines:

A. Test the operation of the boiler and its control and safety devices periodically on a routine basis in accordance with nationally recognized standards and/or boiler and control manufacturer's written recommendations;

B. Maintain and operate the equipment in a safe manner and according to nationally recognized standards such as those recommended by the American Society of Mechanical Engineers for boilers and as adopted by the Steam License Advisory Board. Such standards shall be filed with the City Clerk;

C. Prepare and maintain a boiler log book and record, at least daily or as otherwise required by this Chapter, such pertinent boiler readings and data as may be recommended by the boiler manufacturer, nationally recognized standards, or required by the Boiler Inspector and/or the senior license holder or other authorized person in charge of the boiler operation. The boiler logbook shall be kept on the premises at all times and be available for inspection by the City Boiler Inspector.

**Section 7.** Section 6.230.160 of the Seattle Municipal Code, which section was last amended by Ordinance 118049, is amended as follows:

**6.230.160 Observation and inspection of boilers.**

A. Non-automatic Boilers and Steam Engines. No engineer or boiler fireman in charge of a boiler, boiler plant, or steam engine, for the operation of which this chapter requires a license of Grade I, II, III or IV, shall leave the immediate vicinity thereof for more than twenty (20) minutes when such boiler, boiler plant, or steam engine is being operated. No steam engineer or boiler fireman, licensed under this chapter, in charge of any boiler or steam engine shall leave the premises of his/her employment when such boiler or steam engine is being operated without first either stopping the steam engine and shutting off all sources of heat in the boiler or being relieved by a person duly licensed under this chapter.

~~((Provided, that such attendance requirements shall not apply to the operation of small power boilers and power steam boilers having less than one million (1,000,000) BTU per hour input where such boilers are equipped with approved automatic burners and automatic burner safety controls in accordance with applicable provisions of the Boiler Code as now or hereafter amended, relating to oil and gas burners. For such boilers so equipped, the attendance requirements shall be the same as that set forth for power boilers in subsection B of this section.~~

~~B. Automatic Boilers. The following provisions relating to the frequency of observation and/or inspection of boilers shall apply to the operation of automatic boilers:~~

~~1. Low pressure hot water heating boilers, low pressure steam heating boilers, hot water supply boilers with a capacity of two million five hundred thousand (2,500,000) to five million (5,000,000) BTU per hour input: monthly check by boiler supervisor, or at least a twice daily check by a licensed operator and quarterly check by a boiler supervisor;~~

~~2. Low pressure hot water heating boilers, low pressure steam heating boilers, hot water supply boilers with a capacity over five million (5,000,000) BTU per hour input: at least a twice daily check by a licensed operator and quarterly check by a boiler supervisor;~~

~~3. Power hot water boilers and power steam boilers with a capacity over one hundred thousand (100,000) BTU per hour input: check by licensed operator at two (2) hour intervals;~~

~~4. Small power boilers: at least a twice daily check by a licensed operator and semi-annual check by a boiler supervisor.~~

~~Provided, that the following attendance requirements shall apply to the operation of automatic boilers equipped with an approved monitoring system: twice daily observation by a licensed operator and monthly check by the boiler supervisor; Provided further, that Grade II steam engineers may attend to Grade I monitored automatic boilers and Grade III steam engineers may attend to Grade II monitored automatic boilers when such boilers are checked weekly by a boiler supervisor.))~~

~~C.)) B. Definitions. Phrases used in this section shall have the following meanings:~~

~~1. "Check by Boiler Supervisor" means inspection of all controls and safety devices pursuant to the requirements of Section 6.230.150 D.~~

~~2. "Check by licensed operator" means ((supervision of boiler with responsibility for)) physical examination of the boiler or engine to ensure proper operation and maintenance pursuant to the requirements of SMC Sections 6.230.130 and 6.230.140.~~

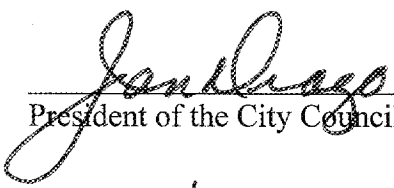
1 3. "Approved monitoring system" means a monitoring system manufactured, installed,  
2 and maintained in a manner approved by the Director.

3 4. "Twice daily check" means two ((2)) inspections of a boiler that are required to be  
4 recorded in the boiler logbook by this chapter. The first check of the day shall be made not  
5 less than eight ((8)) hours after the last recorded check of the previous day; the second  
6 check of the day shall be made at least six ((6)) hours after the first recorded check of the  
7 day. This definition shall not preclude, in any way, additional checks being made to ensure  
8 safe operation of a boiler. Twice daily checks may not be performed by a Boiler  
9 Supervisor unless such Boiler Supervisor is a full time employee of the boiler owner.

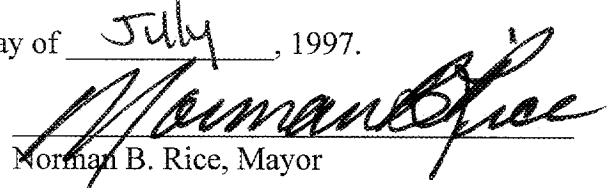
10 5. "Check by a licensed operator at two hour intervals" must include an entry in the  
11 boiler log.

12 **Section 5.** This ordinance shall take effect and be in force thirty (30) days from  
13 and after its approval by the Mayor, but if not approved and returned by the Mayor within  
14 ten (10) days after presentation, it shall take effect as provided by the Municipal Code  
15 Section 1.04.020.

16 Passed by the City Council the 14<sup>th</sup> day of July, 1997, and signed by me  
17 in open session in authentication of its passage this 14<sup>th</sup> day of July,  
18 1997.

19   
20 President of the City Council

21 Approved by me this 17<sup>th</sup> day of July, 1997.

22   
23 Norman B. Rice, Mayor

24 Filed by me this 23 day of July, 1997.

25   
26 Acting City Clerk

27 (SEAL)



Seattle  
Department of Construction and Land Use



R. F. Krochalis, Director  
Norman B. Rice, Mayor

**MEMORANDUM**

**TO:** Jan Drago, President, City Council

**VIA:** Judy Bunnell, Director  
Office of Management and Planning  
ATTN: Pascal St. Gerard

**FROM:** R. F. Krochalis, Director

Contact Staff: Maureen Traxler  
Code Development Analyst Supervisor

**DATE:** June 5, 1997

**RE:** Proposed Amendments to the Steam Engineers and Boiler Firemen Law

Attached for your consideration is an ordinance containing amendments to the Steam Engineers and Boiler Firemen Law. The ordinance makes a change to the procedure for renewing boiler and pressure vessel operator's licenses and reformats other sections of the code. The amendments have been reviewed by the Steam License Advisory Board, which consists of representatives of the affected industries and the public.

The ordinance eliminates the current requirement that boiler firemen and steam engineers be re-examined and apply for a new license each year, and substitutes a requirement that they attend a refresher course each year.

A new table is added which incorporates existing text describing the qualifications necessary for operators of each type of boiler and pressure vessel.

We expect that this ordinance will have no cost impact.



# City of Seattle

Norman B. Rice, Mayor  
Executive Department - Office of Management and Planning  
Judy Bunnell, Director

June 5, 1997

The Honorable Mark Sidran  
City Attorney  
City of Seattle

Dear Mr. Sidran:

The Mayor is proposing to the City Council that the enclosed legislation be adopted.

REQUESTING  
DEPARTMENT:

Department of Construction and Land Use

SUBJECT

AN ORDINANCE relating to Seattle Municipal Code Chapter 6.230, the Seattle Steam Engineers and Boiler Firemen Law, amending Sections 6.230.030, 6.230.040, 6.230.060, 6.230.070, 6.230.140 and 6.230.160, adding and amending definitions, amending the scope of licenses, amending the requirements for observation and inspection of boilers, and adding a new Section 6.230.045 adding a requirement for periodic refresher training for licensed steam engineers and boiler firemen.

Pursuant to the City Council's S.O.P. 100-014, the Executive Department is forwarding this request for legislation to your office for review and drafting.

After reviewing this request and any necessary redrafting of the enclosed legislation, return the legislation to OMP. Any specific questions regarding the legislation can be directed to Pascal St. Gerard at 684-8085.

Sincerely,

Norman B. Rice  
Mayor

by

JUDY BUNNELL  
Director

h:\legis\lawltr\gerard19

Enclosure Seattle Municipal Building, 600 Fourth Avenue, Seattle, WA 98104-1826

Tel: (206) 684-8080, TDD (206) 684-8118, FAX: (206) 233-0085

An equal employment opportunity, affirmative action employer. Accommodations for people with disabilities provided on request.


COPY RECEIVED  
97 JUN -5 PM 3:21  
SEATTLE CITY ATTORNEY

OK  
6/18

TIME AND DATE STAMP

**SPONSORSHIP**

THE ATTACHED DOCUMENT IS SPONSORED FOR FILING WITH THE CITY COUNCIL BY  
THE MEMBER(S) OF THE CITY COUNCIL WHOSE SIGNATURE(S) ARE SHOWN BELOW:

\_\_\_\_\_   
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FOR CITY COUNCIL PRESIDENT USE ONLY**

COMMITTEE(S) REFERRED TO: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
PRESIDENT'S SIGNATURE

# STATE OF WASHINGTON - KING COUNTY

83341  
City of Seattle, City Clerk

—ss.

No. W/TABLE

## Affidavit of Publication

The undersigned, on oath states that he is an authorized representative of The Daily Journal of Commerce, a daily newspaper, which newspaper is a legal newspaper of general circulation and it is now and has been for more than six months prior to the date of publication hereinafter referred to, published in the English language continuously as a daily newspaper in Seattle, King County, Washington, and it is now and during all of said time was printed in an office maintained at the aforesaid place of publication of this newspaper. The Daily Journal of Commerce was on the 12th day of June, 1941, approved as a legal newspaper by the Superior Court of King County.

The notice in the exact form annexed, was published in regular issues of The Daily Journal of Commerce, which was regularly distributed to its subscribers during the below stated period. The annexed notice, a

CT:ORD 118659

was published on

07/30/97

The amount of the fee charged for the foregoing publication is the sum of \$ \_\_\_\_\_, which amount has been paid in full.

Subscribed and sworn to before me on

07/30/97

Notary Public for the State of Washington,  
residing in Seattle

	Steam boilers on same header: 2 maximum		
Small Power Boilers	Maximum 800 kBtu/h input, equipped per Table 320-A of the Boiler Code but not certified as Automatic. Steam boilers on same header: 2 maximum	Semiannual check by a Boiler Supervisor and twice daily checks by a Small Power Boiler Fireman or a Small Power Boiler Fireman on premises	3
All other Small Power Boilers	Maximum 800 kBtu/h input. Steam boilers on same header: 2 maximum	Small Power Boiler Fireman on premises	3
Boilers certified as Automatic	Maximum 20,000 kBtu/h input, steam boilers on same header: 2 maximum	Two hour checks by a Grade IV Boiler Fireman	2
Boilers certified as Automatic	Maximum 50,000 kBtu/h input, no limitation on number of boilers on same header	Two hour checks by a Grade III Steam Engineer	
Boilers certified as Automatic	Maximum 300,000 kBtu/h input, no limitation on number of boilers on same header	Two hour checks by a Grade II Steam Engineer	
Boilers certified as Automatic	Unlimited input	Two hour checks by a Grade I Steam Engineer	
Boilers certified as Monitored	Maximum 20,000 kBtu/h input, steam boilers on same header: 2 maximum	Monthly checks by a Boiler Supervisor and twice daily checks by a Grade IV Boiler Fireman	2
Boilers certified as Monitored	Maximum 50,000 kBtu/h input, no limitations for boilers on same header	Monthly checks by a Boiler Supervisor and twice daily checks by a Grade III Steam Engineer	
Boilers certified as Monitored	Maximum 300,000 kBtu/h input, no limitations for boilers on same header	Monthly checks by a Grade II Boiler Supervisor and twice daily checks by a Grade II Steam Engineer	6
Boilers certified as Monitored	Unlimited input	Monthly checks by a Grade I Boiler Supervisor and twice daily checks by a Grade I Steam Engineer	6
All other boilers	Maximum 20,000 kBtu/h input, steam boilers on same header: 2 maximum	Constant attendance by a Grade IV Boiler Fireman	2
All other boilers	Maximum 50,000 kBtu/h input, no limitations for boilers on same header	Constant attendance by a Grade III Steam Engineer	
All other boilers	Maximum 300,000 kBtu/h input, no limitations for boilers on same header	Constant attendance by a Grade II Steam Engineer	
All other boilers	Unlimited input	Constant attendance by a Grade I Steam Engineer	
Steam engines	Maximum 250 bhp	Constant attendance by a Grade III Steam Engineer	
Steam engines	Maximum 1,500 bhp	Constant attendance by a Grade II Steam Engineer	
Steam engines	Unlimited	Constant attendance by a Grade I Steam Engineer	

TABLE B (LOW PRESSURE BOILERS)

Category	Type / Limitations <sup>1</sup>	Minimum license required	Notes
All boilers	Maximum input 2,500 kBtu/h	No license required	
Boilers certified as Automatic	Maximum input 5,000 kBtu/h	Monthly checks by a Boiler Supervisor or quarterly checks by a Boiler Supervisor and twice daily checks by a Grade V Boiler Fireman or a Grade V Boiler Fireman on premises	1
	Maximum input exceeds 5,000 kBtu/h	Quarterly checks by a	2