



# HOUSE BILL No. 5063

September 19, 1995, Introduced by Reps. LaForge, Brater, Kelly, Goschka, Pitoniak and DeMars and referred to the Committee on Regulatory Affairs.

A bill to amend the title and sections 2, 4, 4a, 12, 14, and 24 of Act No. 290 of the Public Acts of 1965, entitled "Boiler act of 1965," sections 2 and 4a as amended by Act No. 277 of the Public Acts of 1986 and section 4 as amended by Act No. 274 of the Public Acts of 1980, being sections 408.752, 408.754, 408.754a, 408.762, 408.764, and 408.774 of the Michigan Compiled Laws; and to add sections 13a, 13b, 13c, and 13d.

**THE PEOPLE OF THE STATE OF MICHIGAN ENACT:**

1 Section 1. The title and sections 2, 4, 4a, 12, 14, and 24  
2 of Act No. 290 of the Public Acts of 1965, sections 2 and 4a as  
3 amended by Act No. 277 of the Public Acts of 1986 and section 4  
4 as amended by Act No. 274 of the Public Acts of 1980, being  
5 sections 408.752, 408.754, 408.754a, 408.762, 408.764, and

1 408.774 of the Michigan Compiled Laws, are amended and  
2 sections 13a, 13b, 13c, and 13d are added to read as follows:

3 TITLE

4 An act to regulate the ~~use~~ OPERATION, construction,  
5 installation, and repair of CERTAIN boilers; to create a board of  
6 boiler rules; to prescribe uniform rules and regulations for  
7 CERTAIN boilers; to provide for the licensing of CERTAIN boiler  
8 inspectors, installers, and repairers AND REGISTRATION OF CERTAIN  
9 BOILER OPERATORS AND STATIONARY ENGINEERS; TO PROVIDE FOR CERTAIN  
10 POWERS AND DUTIES FOR CERTAIN STATE AGENCIES AND OFFICERS; to  
11 provide CERTAIN fees for REGISTRATIONS, licenses, permits,  
12 inspections, and certificates; to provide penalties AND REMEDIES  
13 for the violation of this act; and to repeal certain acts and  
14 parts of acts.

15 Sec. 2. As used in this act:

16 (a) "Boiler" means a closed vessel in which water is heated,  
17 steam is generated, steam is superheated, or a combination there-  
18 of, under pressure or vacuum by the application of heat from com-  
19 bustible fuels, electricity, or nuclear energy. Boiler does not  
20 include facilities of an integral part of a continuous processing  
21 unit but does include a fired unit for heating or vaporizing liq-  
22 uids other than water, if the unit is separate from a processing  
23 system and is complete within itself.

24 (b) "Power boiler" means a closed vessel in which steam or  
25 other vapor is generated at a pressure of more than 15 p.s.i.g.  
26 by the direct application of heat.

1 (c) "High pressure, high temperature water boiler" means a  
2 water heating boiler operating at pressure exceeding 160  
3 p.s.i.g. or temperatures exceeding 250 degrees Fahrenheit.

4 (d) "Low pressure boiler" means a steam boiler operated at  
5 pressures not exceeding 15 p.s.i.g., or a hot water heating  
6 boiler operated at pressures not exceeding 160 p.s.i.g. or tem-  
7 peratures not exceeding 250 degrees Fahrenheit.

8 (e) "Certificate inspection" means an inspection, the report  
9 of which is used by the chief inspector to decide whether a cer-  
10 tificate, as provided by section 19, shall be issued. The cer-  
11 tificate inspection shall be an internal inspection if construc-  
12 tion allows. ~~; otherwise~~ OTHERWISE, the certificate inspection  
13 shall be as complete an inspection as possible.

14 (f) "External inspection" means an inspection which does not  
15 involve examination of the internal surfaces of the pressure  
16 parts of the boiler.

17 (g) "Secondhand boiler" means a boiler which has changed  
18 ownership and location after initial use.

19 (h) "Heating surface" means the heating surface determined  
20 by the boiler manufacturer and recorded in the manufacturer's  
21 data report or by rules established by the board for a boiler if  
22 the manufacturer's data report is not available or the boiler is  
23 not stamped with its heating surface.

24 (i) "Process boiler" means a boiler operated at a pressure  
25 or temperature from which more than 10% of the boiler's capacity  
26 is used for direct steam humidification or direct process work.

1 (j) "Boiler for agricultural purposes" means a portable  
2 boiler used in a field or similar open area for the sole purpose  
3 of operating farm equipment or farm machinery.

4 (k) "Director" means the director of labor or a representa-  
5 tive designated by the director.

6 (l) "P.S.I.G." means pounds per square inch gauge.

7 (M) "BOILER OPERATOR" OR "STATIONARY ENGINEER" MEANS A  
8 PERSON ENGAGED IN THE OPERATION OF BOILERS AND ASSOCIATED  
9 AUXILIARIES.

10 (N) "APPROVED APPRENTICESHIP PROGRAM" MEANS A TRAINING PRO-  
11 GRAM FOR BOILER OPERATORS OR STATIONARY ENGINEERS CERTIFIED BY OR  
12 MEETING THE STANDARDS OF THE UNITED STATES DEPARTMENT OF LABOR  
13 BUREAU OF APPRENTICESHIP TRAINING AND APPROVED BY THE BOARD.

14 (O) "ASSOCIATED AUXILIARIES" MEANS EQUIPMENT WHICH IS  
15 REQUIRED IN THE OPERATION OF A BOILER WHICH INCLUDES, BUT IS NOT  
16 LIMITED TO, PUMPS, REGULATORS, FEEDWATER HEATERS, SUPERHEATERS,  
17 DE-SUPERHEATERS, ECONOMIZERS, AIR PREHEATERS, DRAFT FANS, COMBUS-  
18 TION AND POLLUTION CONTROL EQUIPMENT, AND PRIME MOVERS.

19 (P) "QUALIFIED TRAINING PROGRAM" MEANS AN IN-HOUSE TRAINING  
20 PROGRAM APPROVED BY THE BOARD AND OFFERED TO BOILER OPERATORS AND  
21 STATIONARY ENGINEERS BY A UTILITY AS A RESULT OF NEGOTIATIONS  
22 BETWEEN A UTILITY AND ITS EMPLOYEES.

23 (Q) "QUALIFIED TECHNICAL EDUCATION PROGRAM" MEANS AN EDUCA-  
24 TIONAL PROGRAM APPROVED BY THE BOARD WHICH HAS A MINIMUM OF 350  
25 CONTACT HOURS IN CLASSROOM HANDS-ON TRAINING, FIELD TRAINING, OR  
26 SUPERVISED PLANT VISITS FOR HIGH PRESSURE BOILER OPERATORS. THE  
27 BOARD MAY ESTABLISH LESSER STANDARDS FOR AN EDUCATIONAL PROGRAM

1 FOR LOW PRESSURE OPERATOR TRAINING OR OTHER ENTRY LEVEL TRAINING  
2 POSITIONS ONLY.

3       Sec. 4. (1) The board shall formulate definitions and rules  
4 for the safe construction, installation, inspection, OPERATION,  
5 and repair of boilers in the state.

6       (2) The definitions and rules formulated for new construc-  
7 tion shall be based upon and follow the generally accepted  
8 nationwide engineering standards, formulae, and practices estab-  
9 lished and pertaining to boiler construction and safety. The  
10 board, by ~~resolution~~ RULE, may adopt an existing published cod-  
11 ification, known as the boiler and pressure vessel code of the  
12 American society of mechanical engineers, with the amendments and  
13 interpretations.

14       (3) The board shall formulate rules for the safe inspection  
15 and maintenance of boilers ~~—~~ which were in use in the state  
16 before July 1, 1966. The rules formulated shall be based upon  
17 and follow the generally accepted nationwide engineering stan-  
18 dards and may be based upon an existing published codification  
19 ~~—~~ known as the inspection code of the national board of boiler  
20 and pressure vessel inspectors.

21       (4) The rules formulated by the board shall be promulgated  
22 pursuant to THE ADMINISTRATIVE PROCEDURES ACT OF 1969, Act  
23 No. 306 of the Public Acts of 1969, as amended, being  
24 sections 24.201 to ~~24.315~~ 24.328 of the Michigan Compiled  
25 Laws.

26       (5) A departure from the requirements of this section shall  
27 be permitted in an unusual situation involving a boiler of

1 special design or construction, if the board is satisfied that a  
2 proposed facility will provide a degree of safety commensurate  
3 with the intent of this act.

4 (6) UPON PAYMENT OF A \$30.00 FEE AND WITHOUT EXAMINATION,  
5 THE BOARD MAY REGISTER AN APPLICANT FOR THE USE OF A TITLE  
6 DESCRIBED IN SECTION 13A WHO IS A BOILER OPERATOR OR STATIONARY  
7 ENGINEER LICENSED OR REGISTERED AS A BOILER OPERATOR OR STATION-  
8 ARY ENGINEER IN ANOTHER STATE, MUNICIPALITY, OR COUNTRY WHOSE  
9 REQUIREMENTS FOR LICENSURE OR REGISTRATION ARE, AT A MINIMUM,  
10 SUBSTANTIALLY EQUIVALENT TO THE REQUIREMENTS OF THIS STATE FOR  
11 REGISTRATION AS DETERMINED BY THE BOARD, IF THAT OTHER STATE,  
12 MUNICIPALITY, OR COUNTRY EXTENDS THE SAME PRIVILEGES OF RECIPROC-  
13 ITY TO A BOILER OPERATOR OR STATIONARY ENGINEER REGISTERED IN  
14 THIS STATE.

15 Sec. 4a. (1) ~~The~~ SUBJECT TO SECTIONS 4(6) AND 13A, THE  
16 board, with the advice of the director, shall promulgate rules  
17 pursuant to ~~The~~ THE administrative procedures act of 1969, Act  
18 No. 306 of the Public Acts of 1969, as amended, being sections  
19 24.201 to 24.328 of the Michigan Compiled Laws, to establish the  
20 fee schedules for licenses, REGISTRATIONS, permits, certificates,  
21 and inspections. The fees shall reflect the actual costs and  
22 expenses for the department of labor in issuing licenses,  
23 REGISTRATIONS, permits, and certificates and in conducting  
24 inspections.

25 (2) To accomplish the objectives of this section and this  
26 act, a state boiler inspection fund is created IN THE STATE  
27 TREASURY. The state treasurer shall be the custodian of the fund

1 and may invest the surplus of the fund in investments as in the  
2 state treasurer's judgment are in the best interest of the fund.  
3 Earnings from those investments shall be credited to the fund.  
4 The state treasurer shall notify the director and the  
5 ~~Legislature~~ LEGISLATURE of interest credited and the balance of  
6 the fund as of September 30 of each year. The director shall  
7 supervise and administer the fund. Fees received by the depart-  
8 ment of labor and money collected under this act shall be depos-  
9 ited in the state boiler inspection fund and shall be appropri-  
10 ated by the ~~Legislature~~ LEGISLATURE for the operations of the  
11 boiler division and THE indirect overhead expenses in the depart-  
12 ment of labor. Funds that are unexpended at the end of each  
13 fiscal year shall be returned to the state boiler inspection  
14 fund.

15 Sec. 12. ~~Examination~~ THE EXAMINATION for chief, deputy,  
16 or special inspectors shall be ~~in writing and~~ WRITTEN. THE  
17 EXAMINATION FOR CERTIFIED BOILER OPERATORS SHALL BE EITHER WRIT-  
18 TEN OR ORAL. THE EXAMINATION FOR CERTIFIED STATIONARY ENGINEERS  
19 SHALL BE BOTH WRITTEN AND ORAL. THE EXAMINATIONS shall be ~~held~~  
20 ADMINISTERED by the board, ~~with at least~~ AND NOT LESS THAN 2  
21 members of the board SHALL BE present at all times during ~~the~~  
22 AN examination. ~~Such examination~~ EXAMINATIONS shall be con-  
23 fined to questions ~~the answers to which~~ THAT will aid in  
24 determining the fitness and competency of the applicant for the  
25 intended service, and may be those prepared by the national board  
26 of boiler and pressure vessel inspectors. THE BOARD MAY ADOPT  
27 ANY EXAMINATION IT DETERMINES APPROPRIATE AND MAY DELEGATE ANY

1 ADMINISTRATIVE FUNCTIONS RELATING TO THE CONDUCT OF THE  
2 EXAMINATION. If an applicant for ~~an inspector's~~ A license fails  
3 to pass the examination, ~~he~~ THE APPLICANT may appeal to the  
4 board for another examination which shall be given by the board  
5 within 90 days. The record of an applicant's examination shall  
6 be accessible to the applicant and ~~his~~ THE APPLICANT'S  
7 employer.

8 SEC. 13A. (1) AN INDIVIDUAL MAY OPERATE A BOILER AND ASSO-  
9 CIATED AUXILIARIES WITHOUT BEING REGISTERED UNDER THIS ACT.

10 (2) AN INDIVIDUAL OR BUSINESS ENTITY SHALL NOT USE THE TERMS  
11 "CERTIFIED BOILER OPERATOR", "CERTIFIED STATIONARY ENGINEER",  
12 "LOW PRESSURE CERTIFIED BOILER OPERATOR", "HIGH PRESSURE CERTI-  
13 FIED BOILER OPERATOR", "THIRD-CLASS CERTIFIED STATIONARY  
14 ENGINEER", "SECOND-CLASS CERTIFIED STATIONARY ENGINEER",  
15 "FIRST-CLASS CERTIFIED STATIONARY ENGINEER", OR ANY OTHER NAME,  
16 STYLE, OR DESCRIPTION WHICH DENOTES THAT THE INDIVIDUAL OR AN  
17 INDIVIDUAL EMPLOYED BY THE BUSINESS ENTITY IS REGISTERED UNDER  
18 THIS ACT EXCEPT UNDER EITHER OF THE FOLLOWING CIRCUMSTANCES:

19 (A) THE INDIVIDUAL HAS BEEN ISSUED A REGISTRATION UNDER THIS  
20 ACT.

21 (B) THE INDIVIDUAL IS EXEMPT UNDER SECTION 23 OF THIS ACT.

22 (3) THE INDIVIDUAL PARTICIPATING IN AN APPROVED APPRENTICE-  
23 SHIP PROGRAM, A QUALIFIED TECHNICAL TRAINING PROGRAM, OR A QUALI-  
24 FIED TRAINING PROGRAM MAY USE THE TITLE "APPRENTICE CERTIFIED  
25 BOILER OPERATOR" OR "APPRENTICE CERTIFIED STATIONARY ENGINEER".

26 (4) AN INDIVIDUAL REGISTERED UNDER THIS ACT SHALL ONLY USE 1  
27 OF THE TITLES DESCRIBED IN SUBSECTION (2) OR THE ABBREVIATION



1 "C.B.O." OR "C.S.E.". THE BOARD MAY CONDUCT AN EXAMINATION  
2 DESIGNED TO ESTABLISH THE COMPETENCY OF APPLICANTS FOR REGISTRA-  
3 TION AND MAY CHARGE AN EXAMINATION FEE.

4 (5) A PERSON APPLYING FOR A REGISTRATION UNDER THIS ACT  
5 SHALL BE NOT LESS THAN 18 YEARS OF AGE, SHALL POSSESS THE PHYSI-  
6 CAL AND MENTAL CAPACITIES TO PERFORM HIS OR HER DUTIES IN A COM-  
7 PETENT AND SAFE MANNER, AND SHALL MEET THE APPLICABLE REQUIRE-  
8 MENTS OF SECTION 13D. AN APPLICANT SHALL USE A FORM PROVIDED BY  
9 THE DIRECTOR.

10 (6) THE DIRECTOR SHALL ISSUE A REGISTRATION UPON RECOMMENDA-  
11 TION OF THE BOARD AND UPON THE APPLICANT'S PAYMENT OF A TESTING  
12 FEE OF \$10.00 AND A REGISTRATION FEE OF \$20.00 OR A FEE PRE-  
13 SCRIBED PURSUANT TO SECTION 4A, WHICHEVER IS HIGHER, FOR EACH  
14 APPLICATION. A REGISTRATION SHALL BE RENEWED ANNUALLY UPON PAY-  
15 MENT OF A FEE OF \$20.00 OR A FEE PRESCRIBED PURSUANT TO  
16 SECTION 4A, WHICHEVER IS HIGHER.

17 (7) NOT LATER THAN 1 YEAR AFTER THE EFFECTIVE DATE OF THE  
18 1993 AMENDATORY ACT THAT ADDED THIS SECTION, THE BOARD SHALL REC-  
19 OMMEND FOR REGISTRATION WITHOUT EXAMINATION AN APPLICANT WHO SUB-  
20 MITS EVIDENCE SATISFACTORY TO THE BOARD OF 1 OR MORE OF THE  
21 FOLLOWING:

22 (A) THE APPLICANT HAS HAD NOT LESS THAN 5 YEARS OF  
23 EXPERIENCE IN THE CLASS OR CATEGORY OF BOILER OPERATOR OR STA-  
24 TIONARY ENGINEER FOR WHICH THE APPLICANT IS APPLYING.

25 (B) THE APPLICANT POSSESSES A LICENSE AS A BOILER OPERATOR  
26 OR STATIONARY ENGINEER FROM THE CITIES OF DETROIT OR DEARBORN IN  
27 A CLASS FOR WHICH THE APPLICANT IS APPLYING.

1 (C) THE APPLICANT HAS SUCCESSFULLY COMPLETED A 4-YEAR  
2 APPROVED APPRENTICESHIP PROGRAM, A QUALIFIED TECHNICAL EDUCATION  
3 PROGRAM, OR A 4-YEAR QUALIFIED TRAINING PROGRAM.

4 SEC. 13B. CERTIFIED BOILER OPERATOR AND CERTIFIED STATION-  
5 ARY ENGINEER REGISTRATIONS ARE CLASSIFIED AS FOLLOWS:

6 (A) LOW PRESSURE CERTIFIED BOILER OPERATOR, WHO OPERATES LOW  
7 PRESSURE BOILER PLANTS HAVING AN AGGREGATE OF NOT MORE THAN 4,000  
8 SQUARE FEET OF BOILER HEATING SURFACE.

9 (B) HIGH PRESSURE CERTIFIED BOILER OPERATOR, WHO OPERATES  
10 BOILER PLANTS HAVING AN AGGREGATE OF NOT MORE THAN 4,000 SQUARE  
11 FEET OF BOILER HEATING SURFACE OR NOT MORE THAN 10 STEAM  
12 ENGINE-TURBINE HORSEPOWER.

13 (C) THIRD-CLASS CERTIFIED STATIONARY ENGINEER, WHO OPERATES  
14 BOILER PLANTS HAVING AN AGGREGATE OF NOT MORE THAN 7,500 SQUARE  
15 FEET OF BOILER HEATING SURFACE OR NOT MORE THAN 100 STEAM  
16 ENGINE-TURBINE HORSEPOWER.

17 (D) SECOND-CLASS CERTIFIED STATIONARY ENGINEER, WHO OPERATES  
18 BOILER PLANTS HAVING AN AGGREGATE OF NOT MORE THAN 20,000 SQUARE  
19 FEET OF BOILER HEATING SURFACE OR NOT MORE THAN 200 STEAM  
20 ENGINE-TURBINE HORSEPOWER.

21 (E) FIRST-CLASS CERTIFIED STATIONARY ENGINEER, WHO OPERATES  
22 BOILER PLANTS HAVING AN AGGREGATE OF 20,000 SQUARE FEET OR MORE  
23 OF BOILER HEATING SURFACE OR 200 STEAM ENGINE-TURBINE HORSEPOWER  
24 OR MORE.

25 SEC. 13C. (1) NOT LATER THAN 180 DAYS AFTER THE EFFECTIVE  
26 DATE OF THE 1993 AMENDATORY ACT THAT ADDED THIS SECTION, THE  
27 BOARD SHALL PROMULGATE RULES DESIGNATING THE COURSE CONTENT FOR

1 QUALIFIED TECHNICAL EDUCATION PROGRAMS FOR THE VARIOUS CATEGORIES  
2 AND CLASSES OF REGISTRATION OF BOILER OPERATORS AND STATIONARY  
3 ENGINEERS.

4 (2) THE RULES DESCRIBED IN SUBSECTION (1) SHALL PROVIDE THAT  
5 THE COURSE CONTENT OF QUALIFIED TECHNICAL EDUCATION PROGRAMS FOR  
6 ENTRY LEVEL REGISTRANTS SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL  
7 OF THE FOLLOWING SUBJECT MATTER AREAS:

8 (A) BASIC FUNCTIONS, CONSTRUCTION, AND OPERATION OF ALL  
9 TYPES OF BOILERS.

10 (B) THE FUNCTION OF BOILER APPLIANCES, ACCESSORIES, AND  
11 ASSOCIATED AUXILIARIES.

12 (C) MATERIALS USED IN BOILERS AND THE EFFECT OF TEMPERATURE  
13 EXTREMES ON THOSE MATERIALS.

14 (D) THE FUELS USED IN BOILERS AND FUNDAMENTALS OF  
15 COMBUSTION.

16 (E) BASIC ELECTRICITY.

17 (F) PLANT OPERATION AND BOILER MAINTENANCE.

18 (G) INSTRUMENTATION AND CONTROLS.

19 (H) FUNDAMENTAL MATHEMATICS AND PRINCIPLES OF THE METRIC  
20 SYSTEM.

21 (I) GENERAL SAFETY PROCEDURES.

22 (J) RECOGNITION OF DANGEROUS OPERATION CONDITIONS.

23 (3) THE BOARD SHALL PROVIDE THAT THE COURSE CONTENT FOR CAT-  
24 EGORIES AND CLASSES OTHER THAN ENTRY LEVEL REGISTRANTS INCLUDES  
25 SUBJECT MATTER SIMILAR TO THOSE DESCRIBED IN SUBSECTION (2) IN  
26 THE DEGREE OF DEPTH AND DIFFICULTY APPROPRIATE FOR THE CATEGORY  
27 AND CLASS.

1 SEC. 13D. (1) THE DIRECTOR SHALL NOT ISSUE A REGISTRATION  
2 FOR A TITLE DESCRIBED IN SECTION 13A(2) UNLESS THE APPLICANT  
3 MEETS THE REQUIREMENTS FOR THE CLASSIFICATION AS PRESCRIBED IN  
4 SUBSECTIONS (2) TO (6).

5 (2) AN APPLICANT FOR A LOW PRESSURE CERTIFIED BOILER OPERA-  
6 TOR REGISTRATION SHALL HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE  
7 OPERATING OR MAINTAINING LOW OR HIGH PRESSURE BOILERS, STEAM  
8 PRIME MOVERS, OR ASSOCIATED AUXILIARIES.

9 (3) AN APPLICANT FOR A HIGH PRESSURE CERTIFIED BOILER OPERA-  
10 TOR REGISTRATION SHALL HAVE 1 OR MORE OF THE FOLLOWING:

11 (A) NOT LESS THAN 2 YEARS OF EXPERIENCE IN THE OPERATION OF  
12 A HIGH PRESSURE BOILER.

13 (B) A LOW PRESSURE CERTIFIED BOILER OPERATOR'S REGISTRATION  
14 AND NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION OF A LOW  
15 PRESSURE BOILER OPERATOR.

16 (C) NOT LESS THAN 1 YEAR OF EITHER A QUALIFIED TRAINING PRO-  
17 GRAM, A QUALIFIED TECHNICAL EDUCATION PROGRAM, OR AN APPROVED  
18 APPRENTICESHIP PROGRAM.

19 (4) AN APPLICANT FOR A THIRD-CLASS CERTIFIED STATIONARY  
20 ENGINEER REGISTRATION SHALL MEET 1 OR MORE OF THE FOLLOWING  
21 REQUIREMENTS:

22 (A) BE REGISTERED AS A HIGH PRESSURE CERTIFIED BOILER OPERA-  
23 TOR AND HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION  
24 OF A HIGH PRESSURE BOILER.

25 (B) BE REGISTERED AS A LOW PRESSURE CERTIFIED BOILER OPERA-  
26 TOR, HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION OF  
27 A LOW PRESSURE BOILER, AND HAVE NOT LESS THAN 1 YEAR OF

1 MAINTENANCE EXPERIENCE ON HIGH PRESSURE BOILERS AND ASSOCIATED  
2 AUXILIARIES.

3 (C) BE REGISTERED AS A HIGH PRESSURE CERTIFIED BOILER OPERA-  
4 TOR AND HAVE NOT LESS THAN 1 YEAR OF BOILER MAINTENANCE  
5 EXPERIENCE OR NOT LESS THAN 1 YEAR AS AN APPRENTICE IN AN  
6 APPROVED TRAINING PROGRAM IN A HIGH PRESSURE BOILER PLANT HAVING  
7 AN AGGREGATE HEATING SURFACE OF MORE THAN 4,000 SQUARE FEET.

8 (D) HAVE NOT LESS THAN 3 YEARS OF EXPERIENCE IN THE OPERA-  
9 TION OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGRE-  
10 GATE HEATING SURFACE OF MORE THAN 4,000 SQUARE FEET.

11 (E) HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION  
12 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE  
13 HEATING SURFACE OF MORE THAN 4,000 SQUARE FEET ALONG WITH SUFFI-  
14 CIENT EXPERIENCE OPERATING STEAM PRIME MOVERS IN EXCESS OF 10  
15 HORSEPOWER FOR A COMBINED TOTAL OF NOT LESS THAN 3 YEARS OF  
16 EXPERIENCE.

17 (F) HAVE AN ASSOCIATE DEGREE IN ENERGY TECHNOLOGY OR A  
18 RELATED FIELD AS DETERMINED BY THE BOARD WITH A POWER ENGINEERING  
19 OPTION FROM A 2-YEAR COLLEGE WHOSE PROGRAM IS APPROVED BY THE  
20 BOARD AND EMPLOYMENT OR COOPERATIVE EDUCATION EXPERIENCE OF NOT  
21 LESS THAN 360 HOURS AS A POWER ENGINEER, BOILER OPERATOR, OR STA-  
22 TIONARY ENGINEER IN A STEAM ELECTRIC GENERATION PLANT OR A HIGH  
23 PRESSURE STEAM HEATING OR PROCESS PLANT.

24 (5) AN APPLICANT FOR A SECOND-CLASS CERTIFIED STATIONARY  
25 ENGINEER REGISTRATION SHALL MEET 1 OR MORE OF THE FOLLOWING  
26 REQUIREMENTS:

1 (A) BE REGISTERED AS A THIRD-CLASS CERTIFIED STATIONARY  
2 ENGINEER AND HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE AS A  
3 THIRD-CLASS CERTIFIED STATIONARY ENGINEER.

4 (B) HAVE A BACHELOR'S DEGREE IN ENGINEERING, ENGINEERING  
5 TECHNOLOGY, HEATING/POWER TECHNOLOGY, OR ENERGY TECHNOLOGY FROM A  
6 COLLEGE OR UNIVERSITY WHOSE PROGRAM IS APPROVED BY THE BOARD AND  
7 EMPLOYMENT EXPERIENCE AS AN ENGINEER IN THE ENGINEERING OR  
8 RESEARCH DIVISION OF A STEAM ELECTRIC POWER GENERATING PLANT FOR  
9 NOT LESS THAN 1 YEAR.

10 (C) HAVE NOT LESS THAN 4 YEARS OF EXPERIENCE IN THE OPERA-  
11 TION OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGRE-  
12 GATE HEATING SURFACE OF MORE THAN 7,500 SQUARE FEET.

13 (D) HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION  
14 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE  
15 HEATING SURFACE OF MORE THAN 7,500 SQUARE FEET ALONG WITH SUFFI-  
16 CIENT EXPERIENCE OPERATING STEAM PRIME MOVERS IN EXCESS OF 100  
17 HORSEPOWER FOR A COMBINED TOTAL OF NOT LESS THAN 4 YEARS OF  
18 EXPERIENCE.

19 (E) HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION  
20 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE  
21 HEATING SURFACE OF MORE THAN 7,500 SQUARE FEET ALONG WITH SUFFI-  
22 CIENT EXPERIENCE OPERATING BOILERS IN A HIGH PRESSURE BOILER  
23 PLANT HAVING AN AGGREGATE HEATING SURFACE OF MORE THAN 4,000  
24 SQUARE FEET FOR A COMBINED TOTAL OF NOT LESS THAN 4 YEARS OF  
25 EXPERIENCE.

1 (6) AN APPLICANT FOR A FIRST-CLASS CERTIFIED STATIONARY  
2 ENGINEER REGISTRATION SHALL MEET 1 OR MORE OF THE FOLLOWING  
3 REQUIREMENTS:

4 (A) BE REGISTERED AS A SECOND-CLASS CERTIFIED STATIONARY  
5 ENGINEER AND HAVE NOT LESS THAN 2 YEARS OF EXPERIENCE AS A  
6 SECOND-CLASS STATIONARY ENGINEER.

7 (B) HAVE NOT LESS THAN 6 YEARS OF EXPERIENCE IN THE OPERA-  
8 TION OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGRE-  
9 GATE HEATING SURFACE OF MORE THAN 20,000 SQUARE FEET.

10 (C) HAVE NOT LESS THAN 2 YEARS OF EXPERIENCE IN THE OPERA-  
11 TION OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGRE-  
12 GATE HEATING SURFACE OF MORE THAN 20,000 SQUARE FEET ALONG WITH  
13 SUFFICIENT EXPERIENCE OPERATING STEAM PRIME MOVERS IN EXCESS OF  
14 200 HORSEPOWER FOR A COMBINED TOTAL OF NOT LESS THAN 6 YEARS OF  
15 EXPERIENCE.

16 (D) HAVE NOT LESS THAN 2 YEARS OF EXPERIENCE IN THE OPERA-  
17 TION OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGRE-  
18 GATE HEATING SURFACE OF MORE THAN 20,000 SQUARE FEET ALONG WITH  
19 SUFFICIENT EXPERIENCE IN THE OPERATION OF BOILERS IN A HIGH PRES-  
20 SURE BOILER PLANT HAVING AN AGGREGATE HEATING SURFACE OF MORE  
21 THAN 7,500 SQUARE FEET OF HEATING SURFACE FOR A COMBINED TOTAL OF  
22 NOT LESS THAN 6 YEARS OF EXPERIENCE.

23 (E) COMPLETE A 4-YEAR APPROVED APPRENTICESHIP PROGRAM OR A  
24 4-YEAR QUALIFIED TRAINING PROGRAM.

25 (F) COMPLETE A 4-YEAR PROGRAM WITH A BACHELOR'S DEGREE FROM  
26 A COLLEGE OR UNIVERSITY IN ENGINEERING, ENGINEERING TECHNOLOGY,  
27 HEATING/POWER TECHNOLOGY, OR ENERGY TECHNOLOGY WHOSE PROGRAM IS

1 APPROVED BY THE BOARD AND WHICH INCLUDES A HANDS-ON POWER OPTION  
2 FROM A 2-YEAR COMMUNITY COLLEGE PROGRAM OR THE EQUIVALENT, AS  
3 DETERMINED BY THE BOARD, AND NOT LESS THAN 1 YEAR OF EMPLOYMENT,  
4 INTERNSHIP, OR COOPERATIVE EDUCATION EXPERIENCE IN A STEAM ELEC-  
5 TRIC GENERATION PLANT OR HIGH PRESSURE STEAM HEATING PROCESS  
6 PLANT.

7       Sec. 14. (1) ~~An inspector's, repairer's, or installer's~~  
8 THE CHIEF INSPECTOR MAY SUSPEND THE license ~~may be suspended by~~  
9 ~~the chief inspector for~~ OF AN INSPECTOR, REPAIRER, OR INSTALLER  
10 OR THE REGISTRATION OF A CERTIFIED BOILER OPERATOR OR CERTIFIED  
11 STATIONARY ENGINEER DUE TO the incompetence of the ~~holder~~  
12 ~~thereof or for wilful~~ REGISTRANT OR LICENSEE OR DUE TO WILLFUL  
13 falsification of ~~any~~ A matter or statement contained in ~~his~~  
14 THAT REGISTRANT'S OR LICENSEE'S application or in a report of  
15 ~~any~~ inspection made by ~~him~~ THE REGISTRANT OR LICENSEE.  
16 Written notice of the suspension shall be given by the chief  
17 inspector within ~~not more than~~ 10 days AFTER THE SUSPENSION to  
18 the REGISTRANT OR licensee, ~~his~~ THE REGISTRANT'S OR LICENSEE'S  
19 employer, and the board. A person whose REGISTRATION OR license  
20 has been suspended may appeal to the board as provided in  
21 section 22 and be present in person and be represented by counsel  
22 at the hearing of the appeal.

23       (2) If the board has reason to believe that a REGISTRANT OR  
24 licensee is no longer qualified to hold his OR HER REGISTRATION  
25 OR license, the board, upon not less than 10 days' written notice  
26 to the REGISTRANT OR licensee and ~~his~~ THE REGISTRANT'S OR  
27 LICENSEE'S employer, shall hold a hearing at which the REGISTRANT



1 OR licensee and his OR HER employer shall have an opportunity to  
2 be heard. If, as a result of the hearing, the board finds that  
3 the REGISTRANT OR licensee is no longer qualified to hold his OR  
4 HER REGISTRATION OR license, the board shall recommend to the  
5 ~~commissioner~~ DIRECTOR that the REGISTRATION OR license be  
6 revoked, and the ~~commissioner~~ DIRECTOR shall ~~thereupon~~  
7 IMMEDIATELY revoke ~~such~~ THE REGISTRATION OR license.  
8 ~~forthwith.~~

9 (3) A person whose REGISTRATION OR license has been sus-  
10 pended may apply, after 90 days from the date of the suspension,  
11 for reinstatement of the REGISTRATION OR license.

12 Sec. 24. (1) ~~It shall be unlawful for any~~ A person, firm,  
13 partnership, or corporation ~~to~~ SHALL NOT operate ~~in this~~  
14 ~~state~~ a boiler without a valid inspection certificate. The  
15 operation of a boiler without ~~such~~ A VALID inspection certifi-  
16 cate ~~,~~ or at a pressure exceeding that specified in ~~such~~ THE  
17 inspection certificate ~~,~~ is a misdemeanor on the part of the  
18 owner, user, or operator ~~thereof and shall be~~ punishable by ~~a~~  
19 ~~fine not exceeding \$500.00, or~~ imprisonment ~~not to exceed~~ FOR  
20 NOT MORE THAN 60 days, or BY A FINE OF NOT MORE THAN \$500.00, OR  
21 both. Each day of the unlawful operation is a separate offense.

22 (2) A PERSON OR BUSINESS ENTITY USING A TITLE DESCRIBED IN  
23 SECTION 13A(2) WITHOUT BEING REGISTERED UNDER THIS ACT OR WITHOUT  
24 BEING EXEMPT FROM REGISTRATION UNDER THIS ACT IS GUILTY OF A MIS-  
25 DEMEANOR PUNISHABLE BY IMPRISONMENT FOR NOT MORE THAN 60 DAYS, A  
26 FINE OF NOT MORE THAN \$500.00, OR BOTH.