

# HOUSE BILL No. 4216

February 7, 2007, Introduced by Reps. Robert Jones, Vagnozzi, Young, Kathleen Law, Clack, Meadows, Leland and Hopgood and referred to the Committee on Labor.

A bill to amend 1965 PA 290, entitled  
"Boiler act of 1965,"  
by amending the title and sections 2, 4, 4a, 12, 14, and 24 (MCL 408.752, 408.754, 408.754a, 408.762, 408.764, and 408.774), section 2 as amended by 2004 PA 103, section 4 as amended by 1980 PA 274, and section 4a as amended by 2004 PA 265, and by adding sections 13a, 13b, 13c, and 13d.

## THE PEOPLE OF THE STATE OF MICHIGAN ENACT:

1

### TITLE

2

An act to regulate the ~~use~~ OPERATION, construction,  
installation, and repair of CERTAIN boilers; to create a board of  
boiler rules; to prescribe uniform rules and regulations for  
CERTAIN boilers; to provide for the licensing of CERTAIN boiler

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1 inspectors, installers, and repairers **AND REGISTRATION OF CERTAIN**  
 2 **BOILER OPERATORS AND STATIONARY ENGINEERS; TO PROVIDE FOR POWERS**  
 3 **AND DUTIES FOR CERTAIN STATE AGENCIES AND OFFICERS;** to provide fees  
 4 for **REGISTRATIONS**, licenses, permits, inspections, and  
 5 certificates; to provide penalties **AND REMEDIES** for the violation  
 6 of this act; and to repeal ~~certain~~ acts and parts of acts.

7 Sec. 2. As used in this act:

8 (a) "Antique steam boiler" means a boiler that is no longer  
 9 used in production applications and is used to demonstrate the  
 10 historical significance of steam boilers in American history.

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

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

20 (D) ~~(b)~~ "Board" means the board of boiler rules created in  
 21 section 3.

22 (E) ~~(e)~~ "Boiler" means a closed vessel in which water is  
 23 heated, steam is generated, steam is superheated, or a combination  
 24 thereof, under pressure or vacuum by the application of heat from  
 25 combustible fuels, electricity, or nuclear energy. Boiler does not  
 26 include facilities of an integral part of a continuous processing  
 27 unit but does include a fired unit for heating or vaporizing

1 liquids other than water, if the unit is separate from a processing  
2 system and is complete within itself.

3 (F) ~~(d)~~—"Boiler for agricultural purposes" means a portable  
4 boiler used in a field or similar open area for the sole purpose of  
5 operating farm equipment or farm machinery.

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

8 (H) ~~(e)~~—"Certificate inspection" means an inspection, the  
9 report of which is used by the chief inspector to decide whether a  
10 certificate, as provided by section ~~19~~—20, shall be issued. The  
11 certificate inspection shall be an internal inspection if  
12 construction allows; otherwise the certificate inspection shall be  
13 as complete an inspection as possible.

14 (I) ~~(f)~~—"Director" means the director of **THE DEPARTMENT OF**  
15 labor and economic growth or a representative designated by the  
16 director.

17 (J) ~~(g)~~—"External inspection" means an inspection ~~which~~—**THAT**  
18 does not involve examination of the internal surfaces of the  
19 pressure parts of the boiler.

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

25 (L) ~~(i)~~—"High pressure, high temperature water boiler" means a  
26 water heating boiler operating at pressure exceeding 160 p.s.i.g.  
27 or temperatures exceeding 250 degrees Fahrenheit.

1       (M) ~~(j)~~—"Low pressure boiler" means a steam boiler operated at  
2 pressures not exceeding 15 p.s.i.g., or a hot water heating boiler  
3 operated at pressures not exceeding 160 p.s.i.g. or temperatures  
4 not exceeding 250 degrees Fahrenheit.

5       (N) ~~(k)~~—"P.S.I.G." means pounds per square inch gauge.

6       (O) ~~(l)~~—"Power boiler" means a closed vessel in which steam or  
7 other vapor is generated at a pressure of more than 15 p.s.i.g. by  
8 the direct application of heat.

9       (P) ~~(m)~~—"Process boiler" means a boiler operated at a pressure  
10 or temperature from which more than 10% of the boiler's capacity is  
11 used for direct steam humidification or direct process work.

12       (Q) "QUALIFIED TECHNICAL EDUCATION PROGRAM" MEANS AN  
13 EDUCATIONAL PROGRAM APPROVED BY THE BOARD THAT HAS A MINIMUM OF 350  
14 CONTACT HOURS IN CLASSROOM HANDS-ON TRAINING, FIELD TRAINING, OR  
15 SUPERVISED PLANT VISITS FOR HIGH PRESSURE BOILER OPERATORS. THE  
16 BOARD MAY ESTABLISH LESSER STANDARDS FOR AN EDUCATIONAL PROGRAM FOR  
17 LOW PRESSURE OPERATOR TRAINING OR OTHER ENTRY LEVEL TRAINING  
18 POSITIONS ONLY.

19       (R) "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       (S) "RULE" MEANS A RULE PROMULGATED PURSUANT TO THE  
24 ADMINISTRATIVE PROCEDURES ACT OF 1969, 1969 PA 306, MCL 24.201 TO  
25 24.328.

26       (T) ~~(n)~~—"Secondhand boiler" means a boiler ~~which~~ **THAT** has  
27 changed ownership and location after initial use.

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

4       (2) The ~~definitions and rules formulated~~ **PROMULGATED** for new  
 5       construction shall be based upon and follow the generally accepted  
 6       nationwide engineering standards, formulae, and practices  
 7       established and pertaining to boiler construction and safety. The  
 8       board, by ~~resolution~~ **RULE**, may adopt an existing published  
 9       codification, known as the boiler and pressure vessel code of the  
 10      American society of mechanical engineers, with the amendments and  
 11      interpretations.

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

19      ~~—— (4) The rules formulated by the board shall be promulgated~~  
 20      ~~pursuant to Act No. 306 of the Public Acts of 1969, as amended,~~  
 21      ~~being sections 24.201 to 24.315 of the Michigan Compiled Laws.~~

22      (4) ~~(5)~~ A departure from the requirements of this section  
 23      ~~shall be~~ **IS** permitted in an unusual situation involving a boiler of  
 24      special design or construction ~~, if the board is satisfied that a~~  
 25      proposed facility will provide a degree of safety commensurate with  
 26      the intent of this act.

27      (5) **UPON PAYMENT OF A \$30.00 FEE AND WITHOUT EXAMINATION, THE**

1 BOARD MAY REGISTER AN APPLICANT FOR THE USE OF A TITLE DESCRIBED IN  
 2 SECTION 13A WHO IS A BOILER OPERATOR OR STATIONARY ENGINEER  
 3 LICENSED OR REGISTERED AS A BOILER OPERATOR OR STATIONARY ENGINEER  
 4 IN ANOTHER STATE, MUNICIPALITY, OR COUNTRY WHOSE REQUIREMENTS FOR  
 5 LICENSURE OR REGISTRATION ARE, AT A MINIMUM, SUBSTANTIALLY  
 6 EQUIVALENT TO THE REQUIREMENTS OF THIS STATE FOR REGISTRATION AS  
 7 DETERMINED BY THE BOARD, IF THAT OTHER STATE, MUNICIPALITY, OR  
 8 COUNTRY EXTENDS THE SAME PRIVILEGES THROUGH RECIPROCITY TO A BOILER  
 9 OPERATOR OR STATIONARY ENGINEER REGISTERED IN THIS STATE.

10 Sec. 4a. (1) ~~The~~ **SUBJECT TO SECTIONS 4(5) AND 13A(6),** THE  
 11 board, with the advice of the director, shall promulgate rules  
 12 ~~pursuant to the administrative procedures act of 1969, 1969 PA 306,~~  
 13 ~~MCL 24.201 to 24.328,~~ to establish the fee schedules for licenses,  
 14 permits, certificates, **REGISTRATIONS**, and inspections. The fees  
 15 shall reflect the actual costs and expenses for the department of  
 16 labor and economic growth in issuing licenses, permits,  
 17 **REGISTRATIONS**, and certificates and in conducting inspections.

18 (2) ~~Beginning the effective date of the amendatory act that~~  
 19 ~~added subsection (3)~~ **JULY 23, 2004**, the department of labor and  
 20 economic growth shall issue an initial or renewal license to  
 21 install or repair a boiler or a permit for the installation or  
 22 repair of a boiler not later than 90 days after the applicant files  
 23 a completed application. Receipt of the application is considered  
 24 the date the application is received by any agency or department of  
 25 the state of Michigan. If the application is considered incomplete  
 26 by the department of labor and economic growth, the department of  
 27 labor and economic growth shall notify the applicant in writing, or

1 make the information electronically available, within 30 days after  
2 receipt of the incomplete application, describing the deficiency  
3 and requesting the additional information. The 90-day period is  
4 tolled upon notification by the department of labor and economic  
5 growth of a deficiency until the date the requested information is  
6 received by the department of labor and economic growth. The  
7 determination of the completeness of an application does not  
8 operate as an approval of the application for the license or permit  
9 and does not confer eligibility of an applicant determined  
10 otherwise ineligible for issuance of a license or permit.

11 (3) If the department of labor and economic growth fails to  
12 issue or deny a license or permit within the time required by this  
13 section, the department of labor and economic growth shall return  
14 the license or permit fee and shall reduce the license or permit  
15 fee for the applicant's next renewal application, if any, by 15%.  
16 The failure to issue a license or permit within the time required  
17 under this subsection does not allow the department to otherwise  
18 delay the processing of the application, and that application, upon  
19 completion, shall be placed in sequence with other completed  
20 applications received at that same time. The department of labor  
21 and economic growth shall not discriminate against an applicant in  
22 the processing of the application based upon the fact that the  
23 license or permit fee was refunded or discounted under this  
24 subsection.

25 (4) Beginning October 1, 2005, the director shall submit a  
26 report by December 1 of each year to the standing committees and  
27 appropriations subcommittees of the senate and house of

1 representatives concerned with occupational issues. The director  
2 shall include all of the following information in the report  
3 concerning the preceding fiscal year:

4 (a) The number of initial and renewal applications the  
5 department **OF LABOR AND ECONOMIC GROWTH** received and completed  
6 within the 90-day time period described in subsection (2).

7 (b) The number of applications denied.

8 (c) The number of applicants not issued a license within the  
9 90-day time period and the amount of money returned to licensees  
10 and registrants under subsection (3).

11 (5) To accomplish the objectives of this section and this act,  
12 a state boiler inspection fund is created **AS A RESTRICTED FUND** in  
13 the state treasury. The state treasurer is the custodian of the  
14 fund and may invest the surplus of the fund. Earnings from those  
15 investments shall be credited to the fund. The state treasurer  
16 shall notify the director and the ~~Legislature~~ **LEGISLATURE** of  
17 interest credited and the balance of the fund as of September 30 of  
18 each year. The director shall supervise and administer the fund.  
19 Fees received by the department of labor and economic growth and  
20 money collected under this act shall be deposited in the state  
21 boiler inspection fund and shall be appropriated by the ~~Legislature~~  
22 **LEGISLATURE** for the operations of the boiler division and indirect  
23 overhead expenses in the department of labor and economic growth.  
24 Funds that are unexpended at the end of each fiscal year shall not  
25 lapse to the general fund and shall be returned to the state boiler  
26 inspection fund.

27 (6) As used in this section, "completed application" means an

1 application complete on its face and submitted with any applicable  
2 licensing or ~~permit~~**REGISTRATION** fees as well as any other  
3 information, records, approval, security, or similar item required  
4 by law or rule from a local unit of government, a federal agency,  
5 or a private entity but not from another department or agency of  
6 the state of Michigan.

7       Sec. 12. ~~Examination~~**THE EXAMINATION** for chief, deputy, or  
8 special inspectors shall be ~~in writing and~~**WRITTEN. THE EXAMINATION**  
9 **FOR CERTIFIED BOILER OPERATORS SHALL BE EITHER WRITTEN OR ORAL. THE**  
10 **EXAMINATION FOR CERTIFIED STATIONARY ENGINEERS SHALL BE BOTH**  
11 **WRITTEN AND ORAL. THE EXAMINATIONS** shall be ~~held~~**ADMINISTERED** by  
12 the board, ~~with at least~~**AND NOT LESS THAN** 2 members of the board  
13 **SHALL BE** present at all times during ~~the~~**AN** examination. ~~Such~~  
14 ~~examination~~**EXAMINATIONS** shall be confined to questions ~~, the~~  
15 ~~answers to which~~**THAT** will aid in determining the fitness and  
16 competency of the applicant for the intended service, and may be  
17 those prepared by the national board of boiler and pressure vessel  
18 inspectors. **THE BOARD MAY ADOPT ANY EXAMINATION IT DETERMINES**  
19 **APPROPRIATE AND MAY DELEGATE ANY ADMINISTRATIVE FUNCTIONS RELATING**  
20 **TO THE CONDUCT OF THE EXAMINATION.** If an applicant for an  
21 ~~inspector's~~**A** license fails to pass the examination, ~~he~~**THE**  
22 **APPLICANT** may appeal to the board for another examination which  
23 shall be given by the board within 90 days. The record of an  
24 applicant's examination shall be accessible to the applicant and  
25 ~~his~~**THE APPLICANT'S** employer.

26       **SEC. 13A. (1) AN INDIVIDUAL MAY OPERATE A BOILER AND**  
27 **ASSOCIATED AUXILIARIES WITHOUT OBTAINING A REGISTRATION UNDER THIS**

1 ACT.

2 (2) AN INDIVIDUAL OR BUSINESS ENTITY SHALL NOT USE THE TERMS  
3 "CERTIFIED BOILER OPERATOR", "CERTIFIED STATIONARY ENGINEER", "LOW  
4 PRESSURE CERTIFIED BOILER OPERATOR", "HIGH PRESSURE CERTIFIED  
5 BOILER OPERATOR", "THIRD-CLASS CERTIFIED STATIONARY ENGINEER",  
6 "SECOND-CLASS CERTIFIED STATIONARY ENGINEER", "FIRST-CLASS  
7 CERTIFIED STATIONARY ENGINEER", OR ANY OTHER NAME, STYLE, OR  
8 DESCRIPTION THAT INDICATES THAT THE INDIVIDUAL OR AN INDIVIDUAL  
9 EMPLOYED BY THE BUSINESS ENTITY IS REGISTERED UNDER THIS ACT EXCEPT  
10 UNDER EITHER OF THE FOLLOWING CIRCUMSTANCES:

11 (A) THE INDIVIDUAL HAS BEEN ISSUED A REGISTRATION UNDER THIS  
12 ACT.

13 (B) THE INDIVIDUAL IS EXEMPT FROM THIS ACT UNDER SECTION 23.

14 (3) THE INDIVIDUAL PARTICIPATING IN AN APPROVED APPRENTICESHIP  
15 PROGRAM, A QUALIFIED TECHNICAL TRAINING PROGRAM, OR A QUALIFIED  
16 TRAINING PROGRAM MAY USE THE TITLE "APPRENTICE CERTIFIED BOILER  
17 OPERATOR" OR "APPRENTICE CERTIFIED STATIONARY ENGINEER".

18 (4) AN INDIVIDUAL REGISTERED UNDER THIS ACT SHALL ONLY USE 1  
19 OF THE TITLES DESCRIBED IN SUBSECTION (2) OR THE ABBREVIATION  
20 "C.B.O." OR "C.S.E.". THE BOARD MAY CONDUCT AN EXAMINATION DESIGNED  
21 TO ESTABLISH THE COMPETENCY OF APPLICANTS FOR REGISTRATION AND MAY  
22 CHARGE AN EXAMINATION FEE.

23 (5) A PERSON APPLYING FOR A REGISTRATION UNDER THIS ACT SHALL  
24 BE NOT LESS THAN 18 YEARS OF AGE, SHALL POSSESS THE PHYSICAL AND  
25 MENTAL CAPACITIES TO PERFORM HIS OR HER DUTIES IN A COMPETENT AND  
26 SAFE MANNER, AND SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION  
27 13D. AN APPLICANT SHALL USE A FORM PROVIDED BY THE DIRECTOR.

1 (6) THE DIRECTOR SHALL ISSUE A REGISTRATION UPON  
2 RECOMMENDATION OF THE BOARD AND UPON THE APPLICANT'S PAYMENT OF A  
3 TESTING FEE OF \$10.00 AND A REGISTRATION FEE OF \$20.00 OR A FEE  
4 PRESCRIBED PURSUANT TO SECTION 4A, WHICHEVER IS HIGHER, FOR EACH  
5 APPLICATION. A REGISTRATION SHALL BE RENEWED ANNUALLY UPON PAYMENT  
6 OF A FEE OF \$20.00 OR A FEE PRESCRIBED PURSUANT TO SECTION 4A,  
7 WHICHEVER IS HIGHER.

8 (7) NOT LATER THAN 1 YEAR AFTER THE EFFECTIVE DATE OF THE  
9 AMENDATORY ACT THAT ADDED THIS SECTION, THE BOARD SHALL RECOMMEND  
10 FOR REGISTRATION WITHOUT EXAMINATION AN APPLICANT WHO SUBMITS  
11 EVIDENCE SATISFACTORY TO THE BOARD OF 1 OR MORE OF THE FOLLOWING:

12 (A) THE APPLICANT HAS HAD NOT LESS THAN 5 YEARS OF EXPERIENCE  
13 IN THE CLASS OR CATEGORY OF BOILER OPERATOR OR STATIONARY ENGINEER  
14 FOR WHICH THE APPLICANT IS APPLYING.

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

18 (C) THE APPLICANT HAS SUCCESSFULLY COMPLETED A 4-YEAR APPROVED  
19 APPRENTICESHIP PROGRAM, A QUALIFIED TECHNICAL EDUCATION PROGRAM, OR  
20 A 4-YEAR QUALIFIED TRAINING PROGRAM.

21 SEC. 13B. CERTIFIED BOILER OPERATOR AND CERTIFIED STATIONARY  
22 ENGINEER REGISTRATIONS ARE CLASSIFIED AS FOLLOWS:

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

26 (B) HIGH PRESSURE CERTIFIED BOILER OPERATOR, WHO OPERATES  
27 BOILER PLANTS HAVING AN AGGREGATE OF NOT MORE THAN 4,000 SQUARE

1 FEET OF BOILER HEATING SURFACE OR NOT MORE THAN 10 STEAM ENGINE-  
2 TURBINE HORSEPOWER.

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

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

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

15 SEC. 13C. (1) NOT LATER THAN 180 DAYS AFTER THE EFFECTIVE DATE  
16 OF THE AMENDATORY ACT THAT ADDED THIS SECTION, THE BOARD SHALL  
17 PROMULGATE RULES DESIGNATING THE COURSE CONTENT FOR QUALIFIED  
18 TECHNICAL EDUCATION PROGRAMS FOR THE VARIOUS CATEGORIES AND CLASSES  
19 OF REGISTRATION OF BOILER OPERATORS AND STATIONARY ENGINEERS.

20 (2) THE RULES DESCRIBED IN SUBSECTION (1) SHALL PROVIDE THAT  
21 THE COURSE CONTENT OF QUALIFIED TECHNICAL EDUCATION PROGRAMS FOR  
22 ENTRY LEVEL REGISTRANTS INCLUDE AT LEAST ALL OF THE FOLLOWING  
23 SUBJECT MATTER AREAS:

24 (A) BASIC FUNCTIONS, CONSTRUCTION, AND OPERATION OF ALL TYPES  
25 OF BOILERS.

26 (B) THE FUNCTION OF BOILER APPLIANCES, ACCESSORIES, AND  
27 ASSOCIATED AUXILIARIES.

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

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

4 (E) BASIC ELECTRICITY.

5 (F) PLANT OPERATION AND BOILER MAINTENANCE.

6 (G) INSTRUMENTATION AND CONTROLS.

7 (H) FUNDAMENTAL MATHEMATICS AND PRINCIPLES OF THE METRIC  
8 SYSTEM.

9 (I) GENERAL SAFETY PROCEDURES.

10 (J) RECOGNITION OF DANGEROUS OPERATION CONDITIONS.

11 (3) THE BOARD SHALL PROVIDE THAT THE COURSE CONTENT FOR  
12 CATEGORIES AND CLASSES OTHER THAN ENTRY LEVEL REGISTRANTS INCLUDES  
13 SUBJECT MATTER SIMILAR TO THOSE DESCRIBED IN SUBSECTION (2) IN THE  
14 DEGREE OF DEPTH AND DIFFICULTY APPROPRIATE FOR THE CATEGORY AND  
15 CLASS.

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

20 (2) AN APPLICANT FOR A LOW PRESSURE CERTIFIED BOILER OPERATOR  
21 REGISTRATION SHALL HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE  
22 OPERATING OR MAINTAINING LOW OR HIGH PRESSURE BOILERS, STEAM PRIME  
23 MOVERS, OR ASSOCIATED AUXILIARIES.

24 (3) AN APPLICANT FOR A HIGH PRESSURE CERTIFIED BOILER OPERATOR  
25 REGISTRATION SHALL HAVE 1 OR MORE OF THE FOLLOWING:

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

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

4 (C) NOT LESS THAN 1 YEAR OF EITHER A QUALIFIED TRAINING  
5 PROGRAM, A QUALIFIED TECHNICAL EDUCATION PROGRAM, OR AN APPROVED  
6 APPRENTICESHIP PROGRAM.

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

10 (A) BE REGISTERED AS A HIGH PRESSURE CERTIFIED BOILER OPERATOR  
11 AND HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION OF A  
12 HIGH PRESSURE BOILER.

13 (B) BE REGISTERED AS A LOW PRESSURE CERTIFIED BOILER OPERATOR,  
14 HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION OF A LOW  
15 PRESSURE BOILER, AND HAVE NOT LESS THAN 1 YEAR OF MAINTENANCE  
16 EXPERIENCE ON HIGH PRESSURE BOILERS AND ASSOCIATED AUXILIARIES.

17 (C) BE REGISTERED AS A HIGH PRESSURE CERTIFIED BOILER OPERATOR  
18 AND HAVE NOT LESS THAN 1 YEAR OF BOILER MAINTENANCE EXPERIENCE OR  
19 NOT LESS THAN 1 YEAR AS AN APPRENTICE IN AN APPROVED TRAINING  
20 PROGRAM IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE HEATING  
21 SURFACE OF MORE THAN 4,000 SQUARE FEET.

22 (D) HAVE NOT LESS THAN 3 YEARS OF EXPERIENCE IN THE OPERATION  
23 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE  
24 HEATING SURFACE OF MORE THAN 4,000 SQUARE FEET.

25 (E) HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION  
26 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE  
27 HEATING SURFACE OF MORE THAN 4,000 SQUARE FEET ALONG WITH

1 SUFFICIENT EXPERIENCE OPERATING STEAM PRIME MOVERS IN EXCESS OF 10  
2 HORSEPOWER FOR A COMBINED TOTAL OF NOT LESS THAN 3 YEARS OF  
3 EXPERIENCE.

4 (F) HAVE AN ASSOCIATE DEGREE IN ENERGY TECHNOLOGY OR A RELATED  
5 FIELD AS DETERMINED BY THE BOARD WITH A POWER ENGINEERING OPTION  
6 FROM A 2-YEAR COLLEGE WHOSE PROGRAM IS APPROVED BY THE BOARD AND  
7 EMPLOYMENT OR COOPERATIVE EDUCATION EXPERIENCE OF NOT LESS THAN 360  
8 HOURS AS A POWER ENGINEER, BOILER OPERATOR, OR STATIONARY ENGINEER  
9 IN A STEAM ELECTRIC GENERATION PLANT OR A HIGH PRESSURE STEAM  
10 HEATING OR PROCESS PLANT.

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

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

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

23 (C) HAVE NOT LESS THAN 4 YEARS OF EXPERIENCE IN THE OPERATION  
24 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE  
25 HEATING SURFACE OF MORE THAN 7,500 SQUARE FEET.

26 (D) HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION  
27 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE

1 HEATING SURFACE OF MORE THAN 7,500 SQUARE FEET ALONG WITH  
2 SUFFICIENT EXPERIENCE OPERATING STEAM PRIME MOVERS IN EXCESS OF 100  
3 HORSEPOWER FOR A COMBINED TOTAL OF NOT LESS THAN 4 YEARS OF  
4 EXPERIENCE.

5 (E) HAVE NOT LESS THAN 1 YEAR OF EXPERIENCE IN THE OPERATION  
6 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE  
7 HEATING SURFACE OF MORE THAN 7,500 SQUARE FEET ALONG WITH  
8 SUFFICIENT EXPERIENCE OPERATING BOILERS IN A HIGH PRESSURE BOILER  
9 PLANT HAVING AN AGGREGATE HEATING SURFACE OF MORE THAN 4,000 SQUARE  
10 FEET FOR A COMBINED TOTAL OF NOT LESS THAN 4 YEARS OF EXPERIENCE.

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

14 (A) BE REGISTERED AS A SECOND-CLASS CERTIFIED STATIONARY  
15 ENGINEER AND HAVE NOT LESS THAN 2 YEARS OF EXPERIENCE AS A SECOND-  
16 CLASS STATIONARY ENGINEER.

17 (B) HAVE NOT LESS THAN 6 YEARS OF EXPERIENCE IN THE OPERATION  
18 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE  
19 HEATING SURFACE OF MORE THAN 20,000 SQUARE FEET.

20 (C) HAVE NOT LESS THAN 2 YEARS OF EXPERIENCE IN THE OPERATION  
21 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE  
22 HEATING SURFACE OF MORE THAN 20,000 SQUARE FEET ALONG WITH  
23 SUFFICIENT EXPERIENCE OPERATING STEAM PRIME MOVERS IN EXCESS OF 200  
24 HORSEPOWER FOR A COMBINED TOTAL OF NOT LESS THAN 6 YEARS OF  
25 EXPERIENCE.

26 (D) HAVE NOT LESS THAN 2 YEARS OF EXPERIENCE IN THE OPERATION  
27 OF BOILERS IN A HIGH PRESSURE BOILER PLANT HAVING AN AGGREGATE

1 HEATING SURFACE OF MORE THAN 20,000 SQUARE FEET ALONG WITH  
 2 SUFFICIENT EXPERIENCE IN THE OPERATION OF BOILERS IN A HIGH  
 3 PRESSURE BOILER PLANT HAVING AN AGGREGATE HEATING SURFACE OF MORE  
 4 THAN 7,500 SQUARE FEET OF HEATING SURFACE FOR A COMBINED TOTAL OF  
 5 NOT LESS THAN 6 YEARS OF EXPERIENCE.

6 (E) COMPLETE A 4-YEAR APPROVED APPRENTICESHIP PROGRAM OR A 4-  
 7 YEAR QUALIFIED TRAINING PROGRAM.

8 (F) COMPLETE A 4-YEAR PROGRAM WITH A BACHELOR'S DEGREE FROM A  
 9 COLLEGE OR UNIVERSITY IN ENGINEERING, ENGINEERING TECHNOLOGY,  
 10 HEATING/POWER TECHNOLOGY, OR ENERGY TECHNOLOGY WHOSE PROGRAM IS  
 11 APPROVED BY THE BOARD AND WHICH INCLUDES A HANDS-ON POWER OPTION  
 12 FROM A 2-YEAR COMMUNITY COLLEGE PROGRAM OR THE EQUIVALENT, AS  
 13 DETERMINED BY THE BOARD, AND NOT LESS THAN 1 YEAR OF EMPLOYMENT,  
 14 INTERNSHIP, OR COOPERATIVE EDUCATION EXPERIENCE IN A STEAM ELECTRIC  
 15 GENERATION PLANT OR HIGH PRESSURE STEAM HEATING PROCESS PLANT.

16 Sec. 14. (1) ~~An inspector's, repairer's, or installer's~~ THE  
 17 CHIEF INSPECTOR MAY SUSPEND THE license ~~may be suspended by the~~  
 18 ~~chief inspector for~~ OF AN INSPECTOR, REPAIRER, OR INSTALLER OR THE  
 19 REGISTRATION OF A CERTIFIED BOILER OPERATOR OR CERTIFIED STATIONARY  
 20 ENGINEER DUE TO the incompetence of the ~~holder thereof or for~~  
 21 ~~willful~~ REGISTRANT OR LICENSEE OR DUE TO WILLFUL falsification of  
 22 ~~any~~ A matter or statement contained in ~~his~~ THAT REGISTRANT'S OR  
 23 LICENSEE'S application or in a report of ~~any~~ inspection made by ~~him~~  
 24 THE REGISTRANT OR LICENSEE. Written notice of the suspension shall  
 25 be given by the chief inspector within ~~not more than~~ 10 days AFTER  
 26 THE SUSPENSION to the REGISTRANT OR licensee, ~~his~~ THE REGISTRANT'S  
 27 OR LICENSEE'S employer, and the board. A person whose REGISTRATION

1 OR license has been suspended may appeal to the board as provided  
 2 in section 22 and be present in person and be represented by  
 3 counsel at the hearing of the appeal.

4 (2) If the board has reason to believe that a **REGISTRANT OR**  
 5 licensee is no longer qualified to hold his **OR HER REGISTRATION OR**  
 6 license, the board, upon not less than 10 days' written notice to  
 7 the **REGISTRANT OR** licensee and ~~his~~ **THE REGISTRANT'S OR LICENSEE'S**  
 8 employer, shall hold ~~a~~ **AN ADMINISTRATIVE** hearing at which the  
 9 **REGISTRANT OR** licensee and his **OR HER** employer shall have an  
 10 opportunity to be heard. If, as a result of the hearing, the board  
 11 finds that the **REGISTRANT OR** licensee is no longer qualified to  
 12 hold his **OR HER REGISTRATION OR** license, the board shall recommend  
 13 to the ~~commissioner~~ **DIRECTOR** that the **REGISTRATION OR** license be  
 14 revoked, and the ~~commissioner~~ **DIRECTOR** shall ~~thereupon~~ **IMMEDIATELY**  
 15 revoke ~~such~~ **THE REGISTRATION OR** license. ~~forthwith.~~

16 (3) A person whose **REGISTRATION OR** license has been suspended  
 17 may apply, after 90 days from the date of the suspension, for  
 18 reinstatement of the **REGISTRATION OR** license.

19 Sec. 24. (1) ~~It shall be unlawful for any~~ **AN INDIVIDUAL, OR**  
 20 **OTHER** person, ~~firm, partnership, or corporation to~~ **SHALL NOT**  
 21 operate ~~in this state~~ a boiler without a valid inspection  
 22 certificate. The operation of a boiler without ~~such~~ **A VALID**  
 23 inspection certificate ~~, or at a pressure exceeding that specified~~  
 24 in ~~such~~ **THE** inspection certificate ~~, is a misdemeanor on the part~~  
 25 of the owner, user, or operator thereof ~~and shall be punishable by~~  
 26 ~~a fine not exceeding \$500.00, or imprisonment not to exceed~~ **FOR NOT**  
 27 **MORE THAN** 60 days, or **BY A FINE OF NOT MORE THAN \$500.00, OR both.**

1 Each day of the unlawful operation is a separate offense.

2 (2) A PERSON OR BUSINESS ENTITY USING A TITLE DESCRIBED IN  
3 SECTION 13A(2) WITHOUT A REGISTRATION ISSUED UNDER THIS ACT OR  
4 WITHOUT AN EXEMPTION FROM REGISTRATION UNDER THIS ACT IS GUILTY OF  
5 A MISDEMEANOR PUNISHABLE BY IMPRISONMENT FOR NOT MORE THAN 60 DAYS,  
6 A FINE OF NOT MORE THAN \$500.00, OR BOTH.