

said survey to the president of the state university for the use of such university, and one (1) copy of each volume to the principal of each normal school in the state, and distribute the balance of said volumes among the high schools in the state in the order in which they shall be called for.

When act to
take effect.

SEC. 2. This act shall take effect and be in force from and after the date of its passage.

Approved April 24, 1889.

CHAPTER 253.

[S. F. No. 467.]

AN ACT TO PROVIDE FOR THE BETTER PROTECTION OF LIFE AND PROPERTY, BY ESTABLISHING A BOARD OF INSPECTORS TO INSPECT STEAM VESSELS AND STEAM BOILERS, AND PROVIDE FOR THE LICENSING OF ENGINEERS OF STEAM ENGINES, AND MASTERS AND PILOTS OF STEAMBOATS ON THE INLAND WATERS OF THE STATE OF MINNESOTA, AND TO REPEAL CHAPTER ONE HUNDRED AND FORTY-EIGHT (148), OF THE GENERAL LAWS OF MINNESOTA FOR THE YEAR ONE THOUSAND EIGHT HUNDRED AND EIGHTY-FIVE (1885).

Be it enacted by the Legislature of the State of Minnesota:

Board of boiler
inspectors,
how appointed.

SECTION 1. Within sixty (60) days after the passage of this act, and biennially thereafter, there shall be appointed by the governor a board of five (5) inspectors, one of whom shall reside in each congressional district, whose duty it shall be to inspect all steam boilers in use within the state, not subject to inspection under the laws of the United States, and not hereinafter excepted, and to examine and grant certificates of license to steam engineers entrusted with the care and management of steam boilers. Said inspectors shall examine and license all masters and pilots on inland waters of the state, and such examination shall be conducted, as near as may be, pursuant to the rules and regulations provided by the laws of the United States for the examination of masters and pilots.

Terms of office,

Said inspectors shall hold their respective offices for two years from the first day of February, A. D. one thousand eight hundred and eighty-nine (1889), and until their successors are appointed and qualified, unless sooner removed by the governor. Said inspectors shall annually on or before the thirty-first (31st) day of January, render a report to the secretary of state, and to the legislature, showing a

detailed statement of the number of inspections made, licenses issued, and the amount of fees received therefor, also showing the amount of disbursements of their offices.

SEC. 2. No person shall be eligible to hold the office of inspector of boilers who has not had at least ten (10) years of actual experience in operating steam engines and steam boilers, or who is directly or indirectly interested in the manufacture or sale of boilers or steam machinery, or any patented article required to be used, or that is in general use in the construction of steam engines or boilers, or who is not of good moral character, and suitably qualified by experience in the construction of steam boilers so as to enable him to perform the duties of the office; and no person shall enter upon or perform any of the duties of inspector who has not taken and subscribed an oath, and filed the same with the secretary of state, that he will faithfully and impartially perform the duties of his office.

Eligibility.

SEC. 3. Said inspectors, in April next after the passage of this act, and in February each year thereafter, shall meet as a board, at the capitol in St. Paul, and establish such rules and regulations for the inspection of steam vessels and steam boilers, and their other duties, as herein provided for, as shall be required by the terms of this chapter. They shall also prescribe rules and regulations for the inspection of the hulls, machinery, boilers, steam connections, fire apparatus, life-saving appliances and equipments of all the steamers propelled in whole or in part by steam, and navigating the inland waters of the state; such rules to conform, as near as may be, to the requirements of the laws of the United States in regard to the inspection of hulls, machinery, boilers, steam connections, fire apparatus, life-saving appliances and equipments of steam vessels, and such rules and regulations, when approved by the governor, shall have the force of law. They shall also designate the number of passengers that each steam vessel may safely carry; and it shall be unlawful for any master or owner of any steam vessel herein provided for, to carry a greater number of passengers than is allowed by the inspector's certificate;

Times of meeting, rules and regulations, etc.

Provided, further, Any master, owner or person not complying with this section and the rules and regulations as prescribed by the inspectors, shall be deemed guilty of misdemeanor, and fined not less than fifty (50) dollars nor more than one hundred (100) dollars, or imprisonment in the county jail not to exceed thirty (30) days, or both, at the discretion of the court.

SEC. 4. Every owner, lessee or other person having charge of steam boilers, or any boat propelled in whole or in part by steam, not subject to inspection under the laws of the United States, shall cause the same to be inspected at least once each year by the inspectors herein provided for, and every such owner, lessee or person having charge

Boilers and steam vessels must be inspected.

of such boilers or steam vessels who shall raise steam and operate such boilers and machinery without such inspection shall be deemed guilty of a misdemeanor and fined not less than fifty (50) dollars nor more than one hundred (100) dollars, or may be imprisoned in the county jail not to exceed thirty (30) days, or both at the discretion of the court.

Steam vessels,
inspection of.

SEC. 5. The inspector or inspectors shall once each year at least, upon application in writing by the owner, lessee or manager, carefully inspect the hull, boiler, machinery and equipments of all steam vessels and all steam boilers liable to inspection under this act, and shall satisfy themselves that every such vessel is of a structure suitable for the service in which she is to be employed, and has suitable accommodations for passengers and the crew, and is in condition to warrant the belief that she may be used in navigating as a steamer with safety to life, and that such equipments as life preservers, floats, pumps, hose, anchors and other things necessary to insure safety have been provided. When the inspection of a steam vessel is completed and the inspector or inspectors approve the vessel and her equipments throughout, he or they shall make and subscribe a sworn and verified certificate to the secretary of state in such form as the board of inspectors shall prescribe, and a copy of said certificate shall be furnished by the inspector to the managing owner or master of said steam vessel, who shall post the same in a conspicuous place on said boat. The original certificate shall be kept on file in the office of secretary of state. The said inspector shall also examine all masters and pilots of steam vessels on inland waters of the state as to their qualifications and fitness, and if found competent and reliable enough to perform the duties of master or pilot, the inspector shall issue them a certificate authorizing them to act as such on such inland waters of the state as designated by their certificate. The inspector shall also make such rules and regulations for the navigation of steam vessels as will permit such navigation without danger to life or property. The inspectors shall revoke the license of any master, pilot or engineer if found under the influence of intoxicating liquor when on duty, or who otherwise disregards the rules and regulations as prescribed by the inspectors. The said inspectors shall be authorized to collect a fee of ten (10) dollars for inspection of all vessels of fifty (50) tons burden and over, and five (5) dollars for all of a less tonnage, and a fee of one (1) dollar for the examination of and issuing a master's or pilot's license and one (1) dollar for the biennial renewal of the same. Every lessee, pilot or owner not complying with this section shall be deemed guilty of a misdemeanor and fined not less than one hundred (100) dollars nor more than two hundred (200

dollars, or may be imprisoned in the county jail not to exceed sixty (60) days, or both at the discretion of the court.

SEC. 6. The said inspectors shall in addition to their duties as inspectors of steam vessels, inspect all steam boilers and steam generators before the same shall be used, and all steam boilers at least once every year thereafter. They shall subject all boilers to hydrostatic pressure or hammer test and shall satisfy themselves by a thorough internal and external examination that the boilers are well made and of good and suitable material, that the openings for the passage of water and steam, respectively, and all pipes and tubes exposed to heat are of proper dimensions and free from obstructions; that the flues are circular in form; that the arrangement for delivering the feed water is such that the boilers cannot be injured thereby, and that such boilers and their steam connections may be safely used without danger to life or property. *Provided, further,* They shall also satisfy themselves that the safety valves are of suitable dimensions, sufficient in number and properly arranged, and that the safety valve weights are properly adjusted so as to allow no greater pressure in the boilers than the amount prescribed by the inspector's certificate; that there is a sufficient number of gauge cocks properly inserted to indicate the amount of water, and suitable gauges that will correctly record the pressure of steam; and that the fusible metals are properly inserted so as to fuse by the heat of the furnace whenever the water in the boilers falls below its prescribed limits, and that adequate and certain provisions for an ample supply of water to feed the boilers at all times, so that in high pressure boilers the water shall not be less than three (3) inches above the top of the fire surface, and that means for blowing out are provided, so as to thoroughly remove the mud and sediment from all parts of the boilers when they are under pressure of steam. In subjecting to the hydrostatic test boilers usually designated as high pressure, the inspector shall assume one hundred and twenty-five (125) pounds to the square inch as the maximum pressure allowable, as a working pressure for new boilers forty-two (42) inches in diameter, double riveted, made in the best manner, of plates one-fourth (1/4) of an inch thick, and of good material; but the inspector shall rate the working power of all high pressure boilers according to their strength compared with this standard, and in all cases the test applied shall exceed the working power allowed, in the ratio of one hundred and sixty-five (165) to one hundred and ten (110). In subjecting to hydrostatic tests boilers usually designated as low pressure, the inspectors shall allow as a working power for each new boiler, a pressure of only three-fourths (3/4) the number of pounds to which it has been subjected by the hydrostatic test. Should the inspector be of the opinion that any boiler by reason of its

Steam boilers,
inspection of.

Test.

construction or material will not safely allow so high a working pressure as herein provided, they may for reasons to be specially stated in their certificate, fix the pressure of such boilers at less than three-fourths (3/4) of the test pressure. No boiler or steam pipe nor any of the connections therewith shall be approved which are made in whole or in part of bad material or cast iron, or are unsafe from any cause. Nothing herein shall be construed to prevent the use of any boiler or steam generator which may not be constructed of riveted iron or steel plates, when the board of inspectors have satisfactory evidence and are satisfied that such boilers or steam generator is equal in strength and as safe from explosion as boilers of the best quality constructed of riveted steel or iron plates.

Imperfect
boilers, penalty
for construction.

SEC. 7. Every person who constructs a boiler or steam pipe of iron or steel plates known to be faulty or imperfect, or drifts any rivet hole to make it come fair, or who delivers any such boiler for use knowing it to be imperfect in its flues, flanging, riveting, bracing, or in any other of its parts, shall be fined two hundred (200) dollars, one half of which shall be paid to the informer.

Examination
of boilers, etc.

SEC. 8. In addition to the annual inspection it shall be the duty of the inspectors to examine at proper times, when in their opinion such examination shall become necessary, all such boilers as shall become unsafe from any cause and to notify the owners or persons using such boilers of any defect and what repairs are necessary in order to render them safe, and it shall be the duty of any person operating such boiler to cease to use the same until such repairs are made, and in case of a failure to comply with the requirements of said inspector, the person operating any such boiler shall, on conviction thereof, be fined not to exceed one hundred (100) dollars and liable to damage to persons or property resulting therefrom.

Fusible plug.

SEC. 9. Every steam boiler shall be provided with a fusible plug, made of good Banca tin inserted in the flues, crown sheet or other parts of the boiler most exposed to the heat of the furnace when the water falls below the prescribed limits.

Owners and
engineers
duties as to
inspection.

SEC. 10. It shall be the duty of owners or managers of steam boilers mentioned in this act to allow said inspectors free access to the same, and it is hereby made the duty of engineers operating the same to assist the inspectors in their examinations and to point out any defect they may know in the boiler or machinery in their charge. Any person not complying with the foregoing provisions of this section shall be punished by a fine of ten (10) dollars and costs. No person shall be entrusted with the operating of any steam boiler or steam machinery who has not been examined by an inspector and found competent and fit to perform the duties of an engineer and received from such inspector a written or printed license so to act,

which shall be renewed biennially. Any person who shall operate any steam boiler or steam machinery of any kind without first obtaining a license from an inspector shall be deemed guilty of a misdemeanor and fined not less than twenty-five (25) dollars nor more than fifty (50) dollars. *Provided, further:* Engineers shall be divided into four classes, namely:

Engineers must be licensed.

Chief engineers.

Engineers, classes of.

First-class engineers.

Second-class engineers.

Special engineers.

First. No license shall be granted to any person under twenty-one (21) years of age except to special engineers. No license shall be granted to any person to perform the duties of chief engineer who has not taken and subscribed an oath that he has had at least five (5) years actual experience in operating steam boilers and steam machinery, or whose knowledge and experience and habits of life are not such as to justify the belief that he is competent to take charge of all classes of steam boilers and steam machinery.

Chief engineer, qualifications for.

Second. No license shall be granted to any person to act as first class engineer who has not taken and subscribed an oath that he has had at least three (3) years actual experience in operating steam boilers and steam machinery, and whose experience and habits of life are not such as to warrant the belief that he is competent to take charge of all classes of steam boilers and steam machinery not exceeding three hundred (300) horse power.

First-class engineer, qualifications for.

Third. No license shall be granted to any person to act as second class engineer who has not taken and subscribed an oath that he has had at least one (1) year of actual experience in operating steam boilers and steam machinery, or whose experience and habits of life are not such as to warrant the belief that he is competent to take charge of all classes of steam boilers and steam machinery not to exceed one hundred (100) horse power.

Second-class engineer, qualifications for.

Fourth. No license shall be granted to any person to act as special engineer unless found upon examination to be sufficiently acquainted with the duties of an engineer to warrant the belief that he can be safely entrusted with steam boilers and steam machinery not to exceed thirty (30) horse power.

Special engineer, qualifications for.

Whenever complaint is made by any person against any engineer holding a license, that he has through negligence, want of skill, inattention to duty, or violation of any part of this act, permitted his boiler to burn or otherwise become in bad condition, it shall be the duty of the inspector who granted the license, upon satisfactory proof of such negligence or otherwise, to revoke the license of such engineer. Said engineer may, however, in case of a grievance against said inspector and person making such complaint, appeal to the entire board and governor of the state, who

Duties of inspector on complaints being made.

shall decide the case, which decision shall be final and conclusive.

Inspectors,
penalty for
wilful viola-
tion of this act.

SEC. 11. In making the inspection of boilers, machinery or steam vessels herein provided for, the inspectors may act jointly or separately, but the inspector or inspectors making such inspection shall in all cases subscribe an oath to the certificate of inspection. And any inspector who shall wilfully certify falsely regarding any steam boilers or their attachments or the hull and equipments of any steam vessel, or who shall grant a certificate of license to any person to act as engineer, master or pilot contrary to the provisions of this act, shall on conviction thereof be fined not less than fifty (50) dollars nor to exceed five hundred (500) dollars, or may be imprisoned not to exceed one (1) year in the state prison or both at the discretion of the court, and in all cases removed from office. All the fines of this act not otherwise disposed of shall accrue to the state.

Certificates of
inspection.

SEC. 12. When the inspector or inspectors shall find after proper tests and examination of a steam boiler or steam generator, as herein provided, that the same is safe and suitable for use, such inspector or inspectors shall make and subscribe a sworn and verified certificate to the secretary of state, in such form as the board of inspectors shall prescribe, and which among other things shall contain a specification of the test applied and the working power allowed, and a copy of the said certificate shall be furnished by the inspector to the owner of the boiler or steam generator. Such copy so furnished the owner of such boiler or generator shall be by him placed or posted in a conspicuous position on such boiler or generator, and shall so remain. The inspectors shall be authorized to charge a fee of three (3) dollars for the inspection of each single boiler and its steam connections and two (2) dollars for each additional boiler when connected and inspected at the same time. Said fees shall be payable at the time of the delivery of the inspector's certificate of approval. The fees for the examination of applicants for engineer's license shall be one (1) dollar, and for the biennial renewal of certificates of license the fee shall be one (1) dollar, which fee shall accompany the application.

Fees.

SEC. 13. All fees collected by the inspectors as provided for in this act shall be retained by them as full compensation for their services and divided among them as they may determine at their regular annual meeting.

Exemptions.

SEC. 14. This act shall not apply to railroad locomotives nor shall engineers employed by railroad companies be required to procure licenses from the state board of inspectors. Nor shall it apply to boilers inspected by insurance companies and certified by their authorized inspectors to be safe. *Provided, further,* That the penalties provided for in this act shall not apply in any case where

prior to the time the inspector or inspectors, have after the application has been made provided for in this act, notified the persons affected that they are ready to make the inspection as herein provided for.

SEC. 15. Chapter one hundred and forty-eight (148) of the general laws of Minnesota for eighteen hundred and eighty-five (1885), and all acts and parts of acts inconsistent with this act are hereby repealed.

Acts repealed.

SEC. 16. The board of boiler inspectors may appoint one (1) or more deputies in the several counties of this state, which deputies shall have the same qualifications as are herein prescribed for boiler inspectors, and shall qualify by taking the oath prescribed by section two (2) of this act, and such deputies shall have the authority within the county for which they are appointed as the chief boiler inspectors under the provisions of this act.

Deputies.

SEC. 17. This act shall take effect and be in force from and after its passage.

When act to take effect.

Approved April 24, 1889.

CHAPTER 254.

[S. F. No. 217.]

AN ACT TO PROVIDE FOR THE MANAGEMENT OF THE STATE PRISON AT STILLWATER AND TO APPROPRIATE FOR THE EXPENSE OF SAID PRISON ANY FUNDS ARISING FROM THE LABOR OF PRISONERS, AND OTHER MISCELLANEOUS RECEIPTS OF THE PRISON.

SECTION 1. State prison located at Stillwater.
 SECTION 2. Managers, how appointed, term of office.
 SECTION 3. Organization of the board of managers.
 SECTION 4. Duties of the board of managers.
 SECTION 5. Officers appointed by the board of managers.
 SECTION 6. Officers and employes appointed by the warden.
 SECTION 7. Board of managers to fix compensation of officers.
 SECTION 8. Bonds of officers and oaths of office.
 SECTION 9. Duties of warden.
 SECTION 10. Duties of deputy warden.
 SECTION 11. Duties of the clerk.
 SECTION 12. Duties of the treasurer.
 SECTION 13. Duties of the physician.
 SECTION 14. Duties of the chaplains.
 SECTION 15. Duties of principal teacher.
 SECTION 16. Duties of the matron.
 SECTION 17. Duties of the steward.
 SECTION 18. Duties of the hospital steward.
 SECTION 19. Duties of the store-keeper.
 SECTION 20. Duties of other officers.

SECTION 21. Managers and officers not to be interested in contracts.
 SECTION 22. Prison officers not to receive other compensation than that provided by law.
 SECTION 23. Business transactions to be in the name of the warden.
 SECTION 24. Miscellaneous receipts to be paid into the state treasury and appropriated for expenses of the prison.
 SECTION 25. Maintenance of the prison library.
 SECTION 26. Clothing and food for convicts.
 SECTION 27. Convicts on discharge to be furnished with clothes.
 SECTION 28. Commitment papers; duties of clerk of court and sheriff.
 SECTION 29. Fees and expenses for taking convicts to prison.
 SECTION 30. U. S. prisoners to be received; expenses, how paid.
 SECTION 31. Prison discipline to be enforced.
 SECTION 32. Injury of unruly convicts; officers justified.
 SECTION 33. Confinement in separate cells.
 SECTION 34. Intoxicating liquors not allowed in prison.