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An Act respecting Steam Boilers.

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His Majesty by and with the advice and consent of the Legislative Assembly of the Province of Alberta enacts as follows:

SHORT TITLE.

Short Title. 1. This Act may be cited as "The Steam Boilers Act."

INTERPRETATION.

Interpretation. 2. In this Act unless the context otherwise requires-

"Boiler" 1. The expression "boiler" does not include boilers carrying under twenty pounds pressure used for heating water for domestic purposes or generating steam solely for heating buildings or railway locomotive or steamboat boilers but means and includes all other steam boilers and every part thereof or thing connected therewith and all apparatus and things attached to or used in connection with any such boiler;

"Owner". 2. The expression "owner" means and includes any person, firm or corporation the owner or lessee of a boiler and the manager or other head officer in charge of the business of any such firm or corporation;

"Engineer". 3. The expression "Engineer" means any person having charge of or operating a steam boiler and the steam engine connected therewith under the provisions of this Act;

"Person". 4. The expression "person" means any male over eighteen years of age;

"Minister." 5. The expression "minister" means the Minister of Public Works;

"Inspector." 6. The expression "Inspector" means an inspector of steam boilers appointed under the provisions of this Act;

- "Inspection certificate." 7. The expression "inspection certificate" means the annual certificate of the inspection of any boiler issued by an inspector;
- "Certificate". 8. The expression "certificate" means the provisional, final or interim certificate of qualification issued to any engineer under the provisions of this Act.
- Appointment of Inspectors. 3. The Lieutenant Governor in Council may appoint an inspector or inspectors of steam boilers for the Province for the purpose of carrying out the provisions of this Act and may fix the remuneration to be paid such inspector or inspectors.
- Inspectors to have no interest in sale of boilers or steam machinery. 4. No person holding the office of inspector under the provisions of this Act shall be either directly or indirectly interested in the sale of boilers or steam machinery.
- Oath of office to be taken. 5. Every inspector appointed under the provisions of this Act shall before entering upon the performance of his duties take and subscribe an oath that he will faithfully and impartially perform the duties of his office.
- Inspectors may enter premises. 6. For the purpose of seeing that the provisions of this Act are complied with any of the inspectors appointed under this Act may at any reasonable hour enter upon any lands or into any building where any steam boiler is operated.
- Obstructing Inspector. 7. Any person interfering with or obstructing any inspector in the performance of his duties under this Act shall be guilty of an offence and liable on summary conviction to a penalty not exceeding \$50.
- Record to be kept. 8. Every inspector shall keep a true record of all boilers inspected and all repairs ordered by him, of all boilers condemned by him as unsafe, of all accidents to boilers in his district whether by explosion or otherwise and of all casualties in connection with boilers in his district.

Annual Report. 9. Every inspector shall render annually on or before the thirty first day of January in each year a concise report to the Minister of all inspections made by him during the preceding year and of all accidents and casualties that may have happened connected with the operation of steam boilers within his district.

Inspector may examine on oath. 10. Any inspector may by notice in writing signed by him require the attendance before him at a time and place to be named in such notice of any person; and may examine the person so notified to be present on oath regarding any matter connected with the inspection or operation of any boiler or any accident thereto.

(2) Any person wilfully neglecting or refusing in any way to comply with the notice of the inspector or to be examined as aforesaid shall be guilty of an offence and liable on summary conviction thereof to a fine of \$25. and on nonpayment of such fine forthwith after conviction to imprisonment for one month.

Boilers to be inspected annually. 11. Every boiler in the Province shall be inspected at least once in each calendar year by an inspector at such time as the inspector may see fit.

(2) If the owner of any boiler proves to the satisfaction of the inspector that his boiler has not been operated since the date of the previous inspection and is in as good condition as when inspected the inspector may issue a new inspection certificate without inspecting the boiler and may remit the fee for inspection hereinafter provided for.

Inspection certificate to issue. 12. Upon completion of his inspection the inspector shall issue to the owner of the boiler an inspection certificate certifying inter alia that the steam gauge is correct and that the safety valve has been set and sealed.

(2) In the case of an inspection of a boiler carrying a steam pressure of ~~fifteen~~ pounds or over for heating water for domestic purposes or generating steam solely for

for heating buildings, the fee payable to the inspector by the owner for such inspection and the issue of such certificate shall be \$2. In all other inspections such fee shall be \$5.

(3) Any owner neglecting or refusing to pay the inspector such fee shall be guilty of a breach of this Act.

(4) The inspection fee may be remitted in the case of small boilers operated by private individuals to operate cream separators.

(5) Such inspection certificate shall be prima facie evidence of the due inspection of the boiler and of its fitness to be operated and the possession of such certificate shall authorise the operation of such boiler from the date of such certificate until its inspection in the next following year.

Production  
thereof.

13. The inspection certificate shall be exposed in a conspicuous place in the boiler or engine room of every stationary boiler and shall be produced at any time by the owner or operator of any portable boiler upon demand of the inspector.

(2) Any owner refusing or neglecting to post up or produce the inspection certificate shall be guilty of an offence and liable upon summary conviction thereof to a penalty not exceeding \$25.

Operating  
without  
inspection  
certificate.

14. Any owner who operates or causes to be operated a stationary boiler without being in possession of an inspection certificate, and any owner who operates or causes to be operated any portable boiler without notifying an inspector or the minister of his intention, shall be guilty of an offence and liable upon summary conviction thereof to a penalty of not less than \$25. and not more than \$100.

Certain boilers  
exempted from  
operation of  
this Ordinance.

15. The provisions of this Act respecting the inspection of boilers shall not apply to any boiler insured and inspected by any duly incorporated boiler insurance company

company doing business in Canada if the owner or owners of such boiler shall when required by an inspector appointed under the provisions of this Act produce the certificate of inspection for the current year from such company.

Unsafe boiler not to be used. 16. Any boiler declared to be unsafe by an inspector shall not be used until such repairs as are ordered by the inspector have been made and the certificate required hereunder duly issued; and any person operating a boiler declared to be unsafe by an inspector before the repairs ordered by the inspector are completed and the certificate issued shall be guilty of an offence and upon summary conviction thereof liable to a penalty of \$50.

Boiler in course of construction or repair may be examined. 17. Inspectors shall have the right at all reasonable hours to examine boilers in course of construction or undergoing repair and to refuse to grant a certificate of inspection for any boiler found to be improperly constructed or repaired or of which permission to make such inspection has been refused.

Inspector to have free access for inspection. 18. The owner or operator of any steam boiler shall allow the inspector free access to the same; and shall furnish water and fill the boiler to permit of the hydrostatic test being made and when necessary shall remove any jacket or covering from the boiler as directed by the inspector; he shall also assist the inspector in making his inspection and shall point out any defect that he may know of or believe to exist in the boiler or the machinery connected therewith.

Owner or operator to assist inspector. (2) Should any owner refuse or neglect to furnish the necessary water and fill the boiler for inspection the inspector may have such work done at the expense of the owner.

Steam gauge. 19. Every steam boiler shall be provided with a reliable steam gauge of approved make.

(2) Such steam gauge shall be tested by the inspector and set to agree with ~~his~~ standard gauge.

Provision of fusible plug.

20. Every steam boiler shall be provided with a fusible plug of good Banca tin inserted in the flues or other portion of the boiler exposed to heat from the furnace when the water therein falls below the limit allowed by this Act.

Provision of lock pop safety valve.

21. Every boiler shall be provided with a lock pop safety valve of approved make which shall be set by the inspector at the time of his inspection and properly locked and sealed.

(2) Any person removing, destroying or in any way interfering with the lock or sealing device on any lock pop safety valve after it has been locked and sealed by an inspector shall be guilty of an offence and liable upon summary conviction thereof to a penalty of \$50.

Owner to report accidents.

22. Every owner of a boiler shall at once report to the nearest inspector any accident or casualty which may happen in connection with the operation of his boiler; and any owner who ~~xx~~ neglects to so notify the inspector shall be guilty of an offence and liable upon summary conviction thereof to a fine not exceeding \$10.

Duties of Inspectors.

23. In inspecting boilers as herein provided the inspectors shall -

(a) Satisfy themselves by a thorough examination inside and out~~side~~ that the boilers are properly constructed and of good and suitable material;

(b) Subject the boilers to such hydrostatic pressure and hammer tests as may be necessary to determine the safe working pressure at which they may be operated;

(c) See that openings for the passage of water and steam respectively and all pipes and tubes exposed to heat are of proper dimensions and free from obstruction;

(d) See that the flues are circular in form;

- (e) Satisfy themselves that the friction (fire line) of the furnace is at least two inches below the prescribed minimum water line of the boiler;
- (f) See that the arrangements for delivering the feed water are such that the boilers cannot be injured thereby;
- (g) Satisfy themselves that such boilers and their steam connections may be safely employed without peril to life.
- (h) See that the boilers are provided with lock pop safety valves of proper size and properly placed;
- (i) See that the pop safety valve is properly adjusted so as to permit of no greater steam pressure in the boiler than the pressure allowed by the inspection certificate and that the valve is properly locked and sealed;
- (j) See that the boiler is provided with a steam gauge of approved make and test and set such gauge so as to agree with standard gauge;
- (k) See that the boiler is provided with a sufficient number of gauge cocks and a properly inserted fusible plug so placed as to fuse by the heat of the furnace whenever the water in the boiler falls below its prescribed limits;
- (l) Satisfy themselves that adequate and certain provision has been made for an ample supply of water to feed the boiler at all times so that in high pressure boilers the water shall not be less than four inches above crown of flue sheet in upright boilers;
- (m) Satisfy themselves that means for blowing out are provided so that mud and sediment may be removed while the boiler is under steam;
- (n) See that the boilers are provided with the necessary number of "man holes" of proper size to permit of the inside of boilers being examined and properly cleaned

(o) See that the back brackets of stationary tubular boilers are fitted on rollers so as to allow free expansion and contraction of the said boilers to prevent accident due to failure of walls.

Hydrostatic tests. 24. In subjecting boilers to hydrostatic pressure tests.

inspectors shall assume one hundred and ten pounds to the square inch as the maximum pressure allowable as a working pressure for new boilers of forty-two inches in diameter made in the best manner of plates one-fourth of an inch thick of good materials and double riveted showing an efficiency of seventy-five per cent in the riveted joints.

Working pressure of boiler.

25. Inspectors shall rate the working pressure of all boilers according to their strength as compared with the standard provided in the preceding section; but the working pressure allowed in the operation of any boiler shall be the ratio of one hundred and thirty pounds safe working pressure to one hundred and ninety pounds hydrostatic test pressure to which such boiler has been subjected at the time of the inspection.

Owner to repair boiler when required.

26. In addition to the annual inspection of all boilers required by this Act it shall be the duty of each inspector to examine and inspect at any time any boilers which may be reported to him to be in an unsafe condition and to notify in writing the owner or person using such boiler to make such repairs as he may deem necessary in order to render such boiler serviceable and safe for use.

#### ENGINEERS.

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Operating boilers without certificates.

27. Anyone not holding a final, interim or provisional certificate of qualification as an engineer or a permit under this Act who at any time operates any steam boiler or is in charge of any steam boiler while in operation whether as owner or as engineer shall be liable on summary conviction to a penalty of not less than \$5. and not more than \$50.



Certificates to 28. Any person who holds a certificate of qualification  
persons who hold  
certificates of as an engineer from any incorporated body authorized to  
qualification.

grant such certificates of qualification for operating  
steam boilers and engines or from the Dominion or any  
Provincial government or from any competent authority  
in any other portion of the British Empire or the United  
States shall be entitled upon making application to the  
Minister accompanied by such evidence of his qualifica-  
tion as may be required by the Minister and upon  
payment of a fee of \$3 to obtain a certificate of  
qualification as an engineer in the class determined by  
the Minister and to be registered under the provisions  
of this Act.

Provisional  
Certificates.

29. Any person may apply to the minister or an inspector  
for a provisional certificate of qualification limited  
to the operation of boilers of not more than 35 horse  
power:, and the minister or inspector may upon being  
satisfied that the applicant is a person of sufficient  
experience to justify the same cause the applicant to  
be orally examined by an inspector under this Act and  
upon such applicant passing such examination satisfact-  
orily he may upon the payment of a fee of \$3. be granted  
such provisional certificate valid for a period of one  
year from the date thereof.

(2) Such provisional certificate may be renewed for a  
further period of one year but no longer and the  
applicant for such renewal may be required to pass an  
oral examination satisfactory to an inspector. The fee  
payable in respect of such renewal shall be \$1.

Application  
for final  
certificate.

30. The holder of a provisional certificate, or anyone  
who in the opinion of an inspector has had such  
sufficient or extensive experience in operating steam  
boilers or engines as to justify the same, may be granted  
a final certificate of qualification as an engineer upon  
applying therefor and passing such an examination as is  
set him by an inspector under the regulations prescribed  
by the minister as hereinafter mentioned.

(2) The inspector shall determine the class of examination to which the applicant is to be submitted, whether first, second or third class, and the certificate issued to the applicant shall be a first, second or third class certificate according to the class of examination to which he is submitted. Provided that the inspector may issue to the applicant a certificate of a lower class than that for which he applied.

(3) Second class certificates shall only entitle the holders thereof to operate steam boilers carrying not more than five hundred horse power and third class certificates shall only entitle the holders thereof to operate steam boilers carrying not more than one hundred horse power.

(4) Upon the applicant for a final certificate of qualification as an engineer passing the examination set by the inspector as herein provided the inspector may issue to such candidate an interim certificate of the class to which he is entitled upon passing such examination which certificate shall entitle the holder to operate as an engineer of the class therein specified for a limited period to be specified in the certificate. In no case shall the time so to be specified be longer than thirty days.

Examination for certificate.

31. The examination of the holders of the provisional certificates of qualification provided for by section 29 of this Act or of any person desiring to qualify as an engineer as herein provided and the issue of certificates to such candidates as may pass such examination shall be conducted in accordance with such regulations as may from time to time be prescribed by the minister; and the minister shall prescribe the fees to be paid for such examinations or the issue of certificates to those who pass such examinations and the qualifications requisite for the candidates for the several classes of certificates.

- Appeal from in- 32. Any candidate who considers he has been unfairly  
 spector. dealt with by any inspector may appeal in writing to  
 the minister setting forth his grievance; and the  
 minister shall at once cause such charge to be invest-  
 igated and shall give a decision in the matter which  
 shall be final.
- Certificate to 33. Every person holding a certificate under this Act  
 be posted. shall expose it in some conspicuous place in the engine  
 or boiler room in which he is employed or cause it to  
 be attached to the engine or boiler of which he is in  
 charge; and in default shall be liable upon summary  
 conviction to a penalty of not less than \$5 and not more  
 than \$20.
- (2) If such person be employed in charge of a portable  
 engine and boiler he shall produce his certificate for  
 inspection on being required so to do by <sup>any</sup> ~~the~~ inspector.
- Absence or non 34. The absence of such certificate or its nonproduction  
 production of on demand shall be prima facie evidence that the person  
 certificate. operating the engine and boiler has no certificate.
- Persons acting 34. In case any owner of a steam boiler shows to the  
 in absence of satisfaction of the minister or an inspector that he is  
 certified unable by reason of some unforeseen occurrence to  
 engineer. immediately secure the services of a duly qualified  
 person to operate such boiler the minister or inspector  
 may grant a permit to any person producing satisfactory  
 evidence of good conduct and sobriety to operate such  
 boiler for a period of thirty days from the date of  
 such permit and in such case no penalty shall be  
 incurred by reason of the holder of such permit operat-  
 ing such steam boiler during the period covered thereby.
- Fee for permit. (2) A fee of \$3 shall be paid to the minister or inspec-  
 tor for every such permit issued by him.
- Operating with- 35. Anyone who employs a person to operate a steam boiler  
 out certificate who has not a certificate or permit under this Act shall  
 or permit. be guilty of a breach of this Act.

- Minister may  
cancel permit. 36. The Minister may upon due cause being shown cancel any certificate issued under the provisions of this Act.
- Regulations  
and forms. 37. The minister may from time to time make such regulations and prescribe such forms as may be deemed necessary for the proper carrying into effect the provisions of this Act.
- Fees. 38. The fees payable under this Act shall be paid into the general revenue fund.
- Penalties. 39. Any person guilty of a breach of any of the provisions of this Act for which no provision is herein made shall on summary conviction thereof be liable to a penalty not exceeding \$50.
- Repeal. 40. Chapter 7 of the Ordinances of the North West Territories 1901, is hereby repealed.

no 39

- B I L L -

An Act respecting

Steam Boilers.

Received and read the

First time

Second time

Third time.

Mr. Cushing.