

**APPENDIX "C" - DELETED 6-8-76**  
**(Based on N. C. Boiler Code)**

C-1

In accordance with the requirements of the General Statutes of North Carolina relative to construction, installation, and operation of Steam Power Boilers, Low Pressure Steam Heating Boilers, Hot Water Heating Boilers, Hot Water Supply Tanks, fired and unfired, the following excerpts shall be observed:

Laws and regulations pertinent to boiler inspection operation, limitations, etc. taken from the General Statute 95-54.

Pertinent information concerning certificates, cost of inspection, application, etc.

Illustrations of boilers connected in Battery, Hot water Boiler Installation, Gas Train suggestions, and piping for hot water tanks.

**GENERAL INFORMATION**

The North Carolina Boiler Bureau is a non-profit division of the Department of Labor and the inspection fees herein contribute to the operation and expenses of the Boiler Bureau.

The various State-employed Boiler Inspectors are strategically located throughout the state (for location see page 4) for the purpose of inspecting pressure vessels covered by these rules. The Inspector is required to collect for the total inspection fee at the time of inspection for which a signed receipt will be given. In cases where it is not possible for the Inspector to collect at time of inspection, a statement will be mailed from the Boiler Bureau for each vessel inspected. All statements should be counted and a check for the total amount drafted to the North Carolina Department of Labor. Records of vessels are filed in numerical order, according to the NC number found on statement. Each NC number should be shown on FACE OF CHECK FOR PROPER CREDIT. FEE MUST BE PAID and RECOMMENDED REPAIRS COMPLETED and BOILER BUREAU NOTIFIED before an operating certificate can be issued for the vessel as required by law.

Vessels insured by a Special Boiler Insurance policy are inspected by a special Inspector employed by the authorized Insurance Company which carries boiler and pressure vessel coverage. A copy of their Insurance report is forwarded to the Boiler Bureau and a statement will be issued to owner/user for \$2.00 certificate fee for each vessel. Fee must be paid and recommended repairs completed and Boiler Bureau notified before an operating certificate can be issued for the vessel as required by law. NC NUMBER IS PRINTED ON TOP LINE OF STATEMENT, FOUR SPACES FROM LEFT, AND MUST BE SHOWN ON FACE OF CHECK FOR PROPER CREDIT.

**ITEMS TO BE REMEMBERED WHEN CORRESPONDING WITH BOILER BUREAU:**

1. Always refer to NC number in your correspondence.
2. Be sure NC number is on face of your check for each vessel for proper credit.
3. You may have more than one vessel. Please (total full amount of all fees) when making your remittance.
4. Be sure to sign repair letter when repairs are completed and return to Boiler Bureau or return a progress report.

**Appendix C**

5. If repairs cannot be completed in the fifteen (15) days allowed, please notify. If repairs are still pending or fees have not been paid in thirty (30) days, a reminder will be mailed for prompt compliance.
6. All correspondence should be addressed to:

NORTH CAROLINA DEPARTMENT OF LABOR  
BOILER BUREAU P. O. BOX 1151  
RALEIGH, NORTH CAROLINA 27602

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**Boiler Code Excerpts**

**BOARD OF BOILER RULES AND BUREAU  
OF BOILER INSPECTION**

**GENERAL STATUTE 95-54 through 95-69.2**

§ **General Statute 95-54. Board of Boiler rules created; members, appointment, and qualifications; terms of office; vacancies; meetings.**—There is hereby created the North Carolina Board of Boiler Rules consisting of six members of whom five shall be appointed to the board by the governor, one for a term of one year, one for a term of two years, one for a term of three years, one for a term of four years and one for a term of five years. At the expiration of their respective terms of office, their successors shall be appointed for terms of five years each. Upon the death or incapacity of any member, the vacancy for the remainder of the term shall be filled with a representative of the same class. Of these five appointed members, one shall be a representative of the owners and users of steam boilers within the State of North Carolina, one a representative of the boiler manufacturer or a boiler maker who has had not less than five years practical experience as a boiler maker within the State of North Carolina, one a representative of a boiler inspection and insurance company licensed to do business within the State of North Carolina, one a representative of the operating steam engineers in the State of North Carolina and one a licensed heating contractor. The sixth member shall be the commissioner of labor, who shall be chairman of the board. The board shall meet at least twice yearly at the state capital or other place designated by the board. (1935, c. 326, s. 1; 1953, c. 569, s. 1)

§ **95-55. Formulation of rules and regulations.**—The board shall formulate rules and regulations for the safe and proper construction, installation, repair, use and operation of steam boilers, steam and hot water heating boilers, and hot water supply tanks and steam or hot water boilers, fired or unfired, in this State. The rules and regulations so formulated shall conform as nearly as possible to the boiler code of the American Society of Mechanical Engineers and amendments and interpretations thereto made and approved by the council of the society. Nothing in this Act shall apply to vessels or equipment used in refrigeration, air conditioning or cooling systems. (1935, c. 326, s. 1; 1951, c. 1107, s. 1.)

§ **95-60. Certain boilers excepted.**—This article shall not apply to boilers under federal control or to stationary boilers used by railroads which are inspected regularly by competent inspectors, or to boilers used solely for propelling motor road vehicles; or to boilers of steam fire engines brought into the State for temporary use in times of emergency to check conflagrations; or to portable boilers used for agricultural purposes only or for pumping or drilling in the open field for water, gas or coal, gold, talc or other minerals and metals; or to hot water supply tanks and boilers, fired or unfired, which are located in private residences or in apartment houses of less than six (6) families; or to steam boilers used for heating purposes carrying a pressure of not more than 15 pounds per square inch gauge, and which are located in private residences or in apartment houses of less than six (6) families; or hot water heating boilers carrying a pressure of not more than 30 pounds per square inch gauge, and which are located in private residences or in apartment houses of less than six (6) families. (1935, c. 326, s. 6; 1937, c. 125, s. 1; 1951, c. 1107, s. 3.)

**Appendix C**

**CAUTION!**  
**KINDLY OBSERVE THE FOLLOWING BRIEFS AND**  
**AVOID UNNECESSARY INCONVENIENCE**  
**(From N. C. Boiler Code)**

DO NOT buy secondhand boiler for use in this State without first making application to this Department and securing permission for operation of same. Also have the same inspected by a State Inspector from this Department or by a duly authorized insurance company inspector and file report of insurance inspection with your application.

DO NOT operate any boiler until same has been inspected by a State Boiler Inspector from this Department or a duly authorized insurance company inspector and a certificate of inspection has been received permitting the operation of same.

DO NOT fail to post certificate of inspection under glass in the boiler room or if boiler is of portable type, on inside of cab or in a metal container or kept in tool box attached.

DO NOT do or have done any WELDING until you have received instructions either from the Department or your insurance carrier.

IN CASE OF ACCIDENT to a boiler in the form of explosion, secure permission from either the insurance company if the boiler is insured or from the State if uninsured, before any changes are made or before any parts are removed, unless removing a part of the structure is necessary toward the saving of life.

Refer all communications to the Department of Labor, Raleigh, North Carolina 27602.

**ATT. BOILER BUREAU**

**ALWAYS GIVE STATE BOILER OR TANK NUMBER, WHERE KNOWN, IN YOUR COMMUNICATION.**

**SECTION 6—EXISTING INSTALLATIONS**  
**LOW PRESSURE HEATING BOILERS**

The following rules and regulations are hereby adopted by the Board of Boiler Rules created under Section 95-55 of the General Statutes of North Carolina.

**Rule 1. ASME Code Boilers**

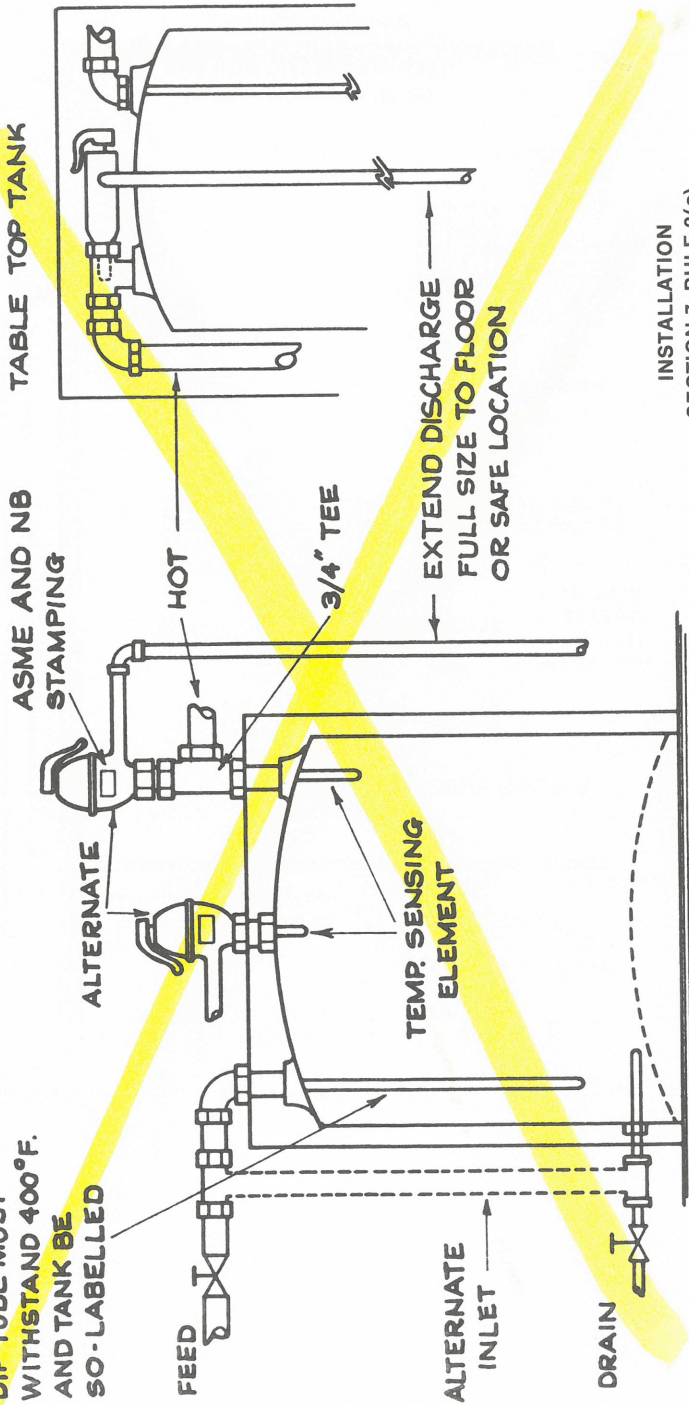
The maximum allowable working pressure of a boiler built in accordance with the ASME Code shall in no case exceed the pressure indicated by the manufacturer's identification stamped or cast upon the boiler or upon a plate secured to it.

**Rule 2. Non-Code Riveted Boilers.**

The maximum allowable working pressure on the shell of a non-code riveted heating boiler shall be determined in accordance with Section 2, Rule 1, covering Existing Installations, Power Boilers, except that in no case shall the maximum allowable working pressure of a steam heating boiler exceed 15 pounds, or a hot water boiler exceed 160 pounds at a temperature not exceeding 250 degrees fahrenheit.

TANKS OF 120 GALLONS OR LESS  
3/4" ASME AND NB PRESSURE/TEMPERATURE  
RELIEF VALVE

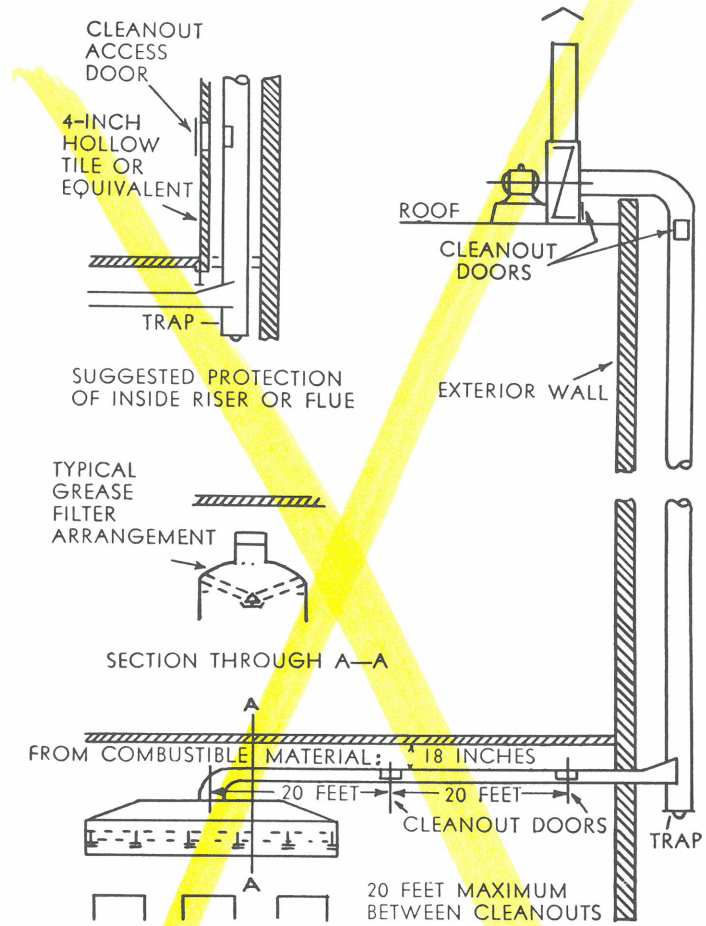
DIP TUBE MUST  
WITHSTAND 400°F.  
AND TANK BE  
SO-LABELLED



[A - 61]

INSTALLATION  
SECTION 7, RULE 2(a)  
(From N. C. Boiler Code)

**APPENDIX "D"**  
**EXHAUST SYSTEM ARRANGEMENTS**



Typical kitchen range exhaust system arrangement. (Excerpt from NFPA No. 96)