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RULES
FOR THE
INSPECTION OF STEAMBOATS
AND FOR THE
EXAMINATION OF ENGINEERS OF STEAMBOATS.

PART I.

Mode of Inspection.

Sec. 1. Any Inspector may, whenever he deems it necessary so to do, and one Inspector shall, at least once in every year, subject the boiler of every steam-boat to a test by hydrostatic pressure, in the ratio of one hundred and fifty pounds to one hundred pounds allowable as a working pressure, using the water in such test at a temperature not exceeding sixty degrees Fahrenheit, and shall satisfy himself by examination and experimental trials that such boiler is well made of good and suitable materials. For the purposes of such test the owner of the steam-boat shall provide the necessary hand-pump and apparatus, the same to be worked by the crew of the vessel; and no Inspector of boilers and machinery shall make or deliver to the owner or master of any steam-boat any certificate, unless he has first subjected the boiler or boilers of such steam-boat to such test by hydrostatic pressure and examination as herein prescribed.

Sec. 2. Before a boiler is subjected to a test by hydrostatic pressure, it shall be opened up for inspection, the man-hole and mud-plate doors removed, and the outside and the inside of the boiler cleaned, the furnace grates removed and the furnace swept out clean, so that satisfactory and efficient inspection may be made; when bulkheads are so placed as to prevent a close examination of the plate of the boiler, they shall be removed; and the owner or master of the steam-boat shall see that the foregoing requirements are complied with before applying for inspection.

Sec. 3. In any case in which the test is not satisfactory, the defects shall be made good and the boiler re-tested satisfactorily, before a certificate is granted.

Sec. 4. Inspectors are to fix the working pressure of boilers by a series of calculations of the strength of the various parts, and according to the workmanship and material of which they are composed.

Sec. 5. Before testing a boiler the Inspectors should examine it, take the necessary measurements and calculate what the working pressure should be, in accordance with these regulations; these instructions apply to super-heaters, steam-chests, and water-jackets, as well as boilers.

Sec. 6. If a boiler is too hot for an Inspector to examine it efficiently with safety and convenience, he should decline to do so, and absolutely refuse to grant a certificate until he can make a satisfactory examination.

Sec. 7. In order to satisfy himself as to strength and internal condition of a boiler, the Inspector may, should he deem it necessary, order holes to be cut in it, and may also demand that such information by drawings and specifications of the several parts be furnished him of the construction, as will enable him to determine, by calculation and examination, their strength.