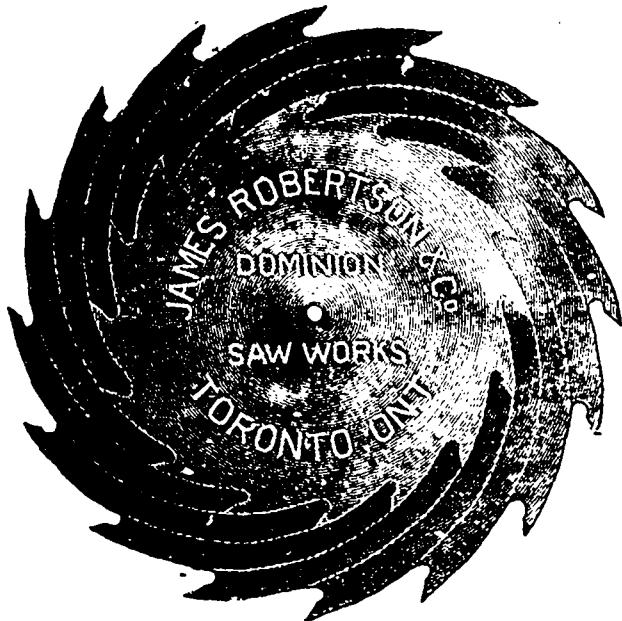


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RULES FOR THE MANAGEMENT OF STEAM BOILERS.

1. Condition of water.—The first duty of an engineer when he enters his boiler room in the morning is to ascertain how many gauges of water there are in his boilers. Never unbank or replenish the fire until this is done. Accidents have occurred, and many boilers have been entirely ruined from neglect of this precaution.

2. Low water.—In case of low water, immediately cover the fires with ashes, or, if no ashes are on hand, use fresh coal. Do not turn on the feed under any circumstances, nor tamper with or open the safety valve. Let the steam outlets remain as they are.

3. In cases of foaming.—Close throttle and keep closed long enough to show level of water. If that level is sufficiently high, feeding and blowing will usually suffice to correct the evil. In cases of violent foaming, caused by dirty water, or change from salt to fresh, or vice versa, in addition to the action before stated, check draft and cover fires with fresh coal.

4. Leaks.—When leaks are discovered they should be repaired as soon as possible.

5. Blowing off.—Blow off eight or ten inches at least once a week; every Saturday night would be better. In case the feed becomes muddy, blow out six or eight inches every day. Never blow entirely off except when boiler needs scraping or repairing, and then not until fire has been drawn for at least ten hours, as boilers are often seriously injured or ruined by being emptied when the walls are hot. Where surface blow cocks are used, they should be often opened for a few moments at a time.

6. Filling up the boiler.—After blowing down allow the boiler to become cool before filling again. Cold water, pumped into hot boilers, is very injurious from sudden contraction.

7. Exterior of boiler.—Care should be taken that no water comes in contact with the exterior of boiler, either from leaky joints or other causes.

8. Removing deposit and sediment.—In tubular boilers the hand holes should be often opened, and all collections removed from over the fire. Also, when boilers are fed in front and

blown off through the same pipe, the collection of mud or sediment in the rear end should be often removed.

9. Safety valves.—Raise the safety valves cautiously and frequently, as they are liable to become fast in their seats, and useless for the purpose intended.

10. Safety valve and pressure gauge.—Should the gauge at any time indicate an excessive pressure, see that the safety valves are blowing off. In case of difference, notify the parties from whom the boiler was purchased.

11. Gauge cocks, glass gauge.—Keep gauge cocks clear, and in constant use. Glass gauges should not be relied on altogether.

12. Blisters.—When a blister appears there must be no delay in having it carefully examined and trimmed, or patched, as the case may require.

13. Clean sheets.—Particular care should be taken to keep sheets and parts of boilers exposed to the fire perfectly clean, also all tubes, flues, and connections well swept. This is particularly necessary where wood or soft coal is used for fuel.

14. General care of boilers and connections.—Under all circumstances keep the gauges, cocks, etc., clean and in good order, and things generally in and about the engine and boiler room in neat condition.

The above rules are those adopted by the Hewes & Phillips Iron Works, Newark, N. J.—*Mechanical and Milling News.*

Says the *Montreal Gazette*:—Our Quebec correspondent telegraphs on May 30th, the following sales took place to-day: Bryson's raft, about 55 feet average square pine, with a quantity of waney, at about 26c.; Klock's raft, upwards of 60 feet average square pine, with a quantity of waney, at about 30c. Both are large rafts.

The Morning Dress.

It is said that a lady's standing in society can easily be determined by her dress at the breakfast-table; an expensive, showy costume, indicating that the wearer has not yet learned the proprieties. But no one need be afraid of being called "shoddy" if her loveliness is as apparent by daylight as at the hops. Perfect beauty is never the attendant of disease: above all, of those diseases peculiar to women, and which find a ready cure in Pierce's Favorite Prescription. Price reduced to one dollar. By druggists

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