

HAWAII ADMINISTRATIVE RULES

TITLE 12

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

SUBTITLE 8

HAWAII OCCUPATIONAL SAFETY AND HEALTH DIVISION

PART 10

BOILER AND PRESSURE VESSELS

CHAPTER 221.1

EXISTING PRESSURE RETAINING ITEMS

- §12-221.1-1 Inspection of pressure retaining items
- §12-221.1-2 Pressure retaining items improperly prepared for inspection
- §12-221.1-3 Lap seam crack
- §12-221.1-4 Boiler blowoff equipment
- §12-221.1-5 Clearances
- §12-221.1-6 Use of time clocks prohibited

Historical Note: This chapter is based substantially upon chapter 12-221. [Eff 12/6/82; am 12/19/83; am 12/8/86; am and comp 12/6/90; am 11/18/12
R DEC 24 2019]

§12-221.1-1 Inspection of pressure retaining items. All pressure retaining items, unless exempt by the law or this part, shall be inspected in accordance with the NBIC Part 2 and the requirements of this part. [Eff and comp **DEC 2 1 2019**] (Auth: HRS §397-4) (Imp: HRS §397-4)

§12-221.1-2 Pressure retaining items improperly prepared for inspection. If a pressure retaining item is not properly prepared for a required inspection, or if the owner or user fails to comply with the inspection requirements, the inspector may decline to make the inspection or test. The operating permit shall be withheld, or right to operate revoked, until the owner or user complies with the requirements. [Eff and comp **DEC 2 1 2019**] (Auth: HRS §397-4) (Imp: HRS §397-4)

§12-221.1-3 Lap seam crack. The shell or drum of a boiler in which a lap seam crack is discovered along a longitudinal riveted joint must be immediately discontinued from use. Repair of the shell or drum is prohibited. [Eff and comp **DEC 2 1 2019**] (Auth: HRS §397-4) (Imp: HRS §397-4)

§12-221.1-4 Boiler blowoff equipment. (a) The blowdown from a boiler or boilers that enters a sanitary sewer system or blowdown that is considered a hazard to life or property shall pass through some form of blowoff equipment that will:

- (1) Prevent water exceeding 150 degrees Fahrenheit from leaving the blowoff equipment; and

(2) Prevent the pressure leaving the blowdown of any blowoff equipment to exceed five (5) psig.

(b) Blowoff equipment shall conform to the provisions set forth in NB-27 "A Guide to Blowoff Vessels". [Eff and comp §397-4) (Imp: HRS §397-4) DEC 21 2019] (Auth: HRS §397-4)

§12-221.1-5 Clearances. The following shall apply to clearances:

- (1) For pressure retaining items installed prior to January 1986, a recommended clearance of three (3) feet between the top of the boiler proper and the ceiling and three (3) feet between all sides of the boiler and adjacent walls or other structures is required;
- (2) For all pressure retaining items installed after January 1986, refer to applicable chapters in this part for the specific type of equipment;
- (3) Pressure retaining items having manholes shall have at least five (5) feet clearance from the manhole opening and any wall, ceiling, or piping to permit egress or entry;
- (4) All pressure retaining items shall have adequate space for their proper operation, including appurtenances; and
- (5) All pressure retaining items shall have adequate space to facilitate the inspection necessary, maintenance, repair, and replacement of all tubes, waterwalls, economizers, piping, valves, and other equipment for their necessary maintenance and repair. [Eff and comp §397-4) (Imp: HRS §397-4) DEC 21 2019] (Auth: HRS §397-4)

§12-221.1-6 Use of time clocks prohibited. The use of time clocks or other devices for automatically starting up or shutting down a power boiler or a heating boiler which produces steam shall be prohibited. [Eff and comp **DEC 21 2019**] (Auth: HRS §397-4) (Imp: HRS §397-4)