

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 225.1

PRESSURE SYSTEMS

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Historical Note: This chapter is based substantially upon chapter 225. [Eff 8/5/88; am and comp 12/6/90; am 11/18/12; R **DEC 24 2019**]

§12-225.1-1 Definitions. As used in this chapter:

"Authorized inspection agency" means an agency meeting the requirements of NB-360, National Board

Acceptance of Authorized Inspection Agencies (AIA), and accredited by the American Society of Mechanical Engineers.

"Authorized inspector" means an individual holding a valid National Board Authorized Inspector Commission (AI) and designated as such by an AIA.

"Boiler external piping" means that piping from the beginning of the well head to the throttle valve and includes pipe, flanges, bolting, gaskets, valves, relief devices, fittings, and the pressure containing portions of other piping components and designed in accordance with ASME B31.1.

"Geothermal energy systems" means geothermal energy systems operating at a pressure of more than fifteen (15) psi.

"Pressure systems" means all unfired pressure vessels and pressure pipe components of any closed liquid or vapor distribution system operating at a pressure of more than fifteen (15) psig or a temperature more than 250 degrees Fahrenheit, or both, and obtaining its heat from a source other than the combustion of gaseous, liquid, or solid fuels, and electricity. [Eff and comp] (Auth: §397-4) (Imp: HRS §397-4) **DEC 24 2019**

§12-225.1-2 Geothermal energy systems. (a) All pressure vessels forming a part of a geothermal energy system shall be designed and constructed in accordance with the requirements of ASME BPV Code Section I, or Section VIII Division 1, or Division 2, as applicable, and registered with the National Board. New installations shall require filing of an application for installation permit prior to the commencement of work as prescribed in section 12-220-2.1.

(b) All boiler external piping shall be designed and constructed in accordance with the requirements of the ASME B31.1. Application for authorization for the installation of boiler external piping shall be as prescribed in section 12-220-9.1.



(c) When pressure vessels having a manhole opening form part of a geothermal pressure system, the piping upstream from the pressure vessel shall be fitted with two stop valves having an ample free blow drain between them. In determining the existence of two stop valves, the well head stop valve shall not be counted.

(d) When multiple geothermal wells supply the same pressure system, all pressure vessels having a manhole opening shall be fitted on both the upstream side and the downstream side with two stop valves having an ample free blow drain between them. [Eff and comp **DEC 21 2019**] (Auth: §397-4) (Imp: HRS §397-4)

§12-225.1-3 Overpressure protection. All pressure vessels within the scope of this chapter that can be isolated under pressure shall be provided with pressure relieving devices in accordance with the requirements of the applicable ASME BPVC. [Eff and comp **DEC 21 2019**] (Auth: §397-4) (Imp: HRS §397-4)