

Regulations PS 22.0 – Boilers & Pressure Vessels

PCFC- Entity (Business Unit) Name	:	Trakhees – Ports, Customs & Free Zone Corporation
Department Name	:	Civil Engineering Department (CED)
Section Name	:	Permits Section (Facilities)
Document Reference Number	:	PCFC-TRK-CED-PS-REG-22
Revision Number	:	01
Revision Date	:	May 2019
Classification	:	Public

Installation and operation of boilers/oil heaters etc. shall meet the following guidelines.

- 22.1 Boiler design should meet ASME boiler & pressure vessel codes.
- 22.2 Boilers should be installed at a safe distance from production or other working areas and to be protected (at least 3 meters). Entry is to be restricted in the boiler rooms for authorized personnel only.
- 22.3 The fuel tank should be bunded with impervious bund wall including the bund floor. The same should be designed to confine fuel of 110% fuel tank capacity and underground bunded area to be lined with HDPE lining. Details of bund wall volume calculation & design should be provided.
- 22.4 All safety devices of the Boiler must be checked before starting and the safety devices as well as pressure gauges and water level meter should be located at a height of not more than 1.5 m from the ground level.
- 22.5 A suitable stop valve/valves by which the boiler vessel or the boiler system may be isolated from other vessels or source of supply of pressure is to be provided.
- 22.6 Proper drainage facility should be provided for the boiler condensate and blow down away from the domestic drainage of the facility.
- 22.7 Proper sampling point & access ladder to be provided on chimney for emission quality checks.
- 22.8 The boiler should be checked and certified by accredited third party (in case of new boiler, manufacturer's certificate is acceptable) every year. The test & certification should cover the entire boiler's safety devices, gauges, internal and external conditions etc.

- 22.8.1 External Inspection: A visual examination/evaluation of the exterior surface, structure, foundations and insulation of a pressure vessel or tank to determine the apparent condition and to establish the suitability of the vessel or tank for continued operation.
- 22.8.2 Internal Inspection: An examination/evaluation of the interior surface and structure of a vessel or tank using visual and/or non-destructive examination procedures to determine the physical conditions and to establish the suitability of the vessel or tank for continued operation.
- 22.8.3 On-Stream Inspection: An examination/evaluation performed from outside of a pressure vessel or tank using non-destructive examination procedures to determine the apparent condition and to establish the suitability of the vessel or tank for continued operation.
- 22.8.4 All the inspection/testing records and reports shall be maintained and will be required to be presented as & when required by the Authority.
- 22.9 Refer PCFC Environmental Guideline (2004) No. 2 for Large Boilers & Furnaces.
- 22.10 Conditions mentioned in Article (16) of the Ministerial Decision 32 of 1982 on the prevention of preventive methods and measures for the protection of labour from the risk of work to be fulfilled and acknowledged.