
 GOVERNMENT OF DUBAI	Organization Unit	Public Health & Safety Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
	Form sheet title:	Guidelines for Examination and Certification of Boilers and Pressure Vessels	اسم النموذج :	
	Doc Ref.	DM-PH&SD-P4-TG20	رقم النموذج :	

2.1.7. *Piping, connections and fittings*

Steam and water piping and fittings should be examined for evidence of leakage. To avoid water hammer the location of the various stop and drain valves should be such that waters will not accumulate when the valves are closed.

2.1.8. *Blow off piping*

The blow down of the boiler should be operating normally with freedom of the piping to expand and contract and without excessive vibration.

2.2. Internal Inspections

2.2.1. The owner or user should prepare a boiler for internal inspection under the direct supervision of the competent person, by taking all the safety precautions with reference to fuel supply/ignition system, water side, insulation, pressure gauge, isolation, manhole, entry into boiler.

2.2.2. Where defects or deterioration are suspected or are commonly found in the particular type of boiler being inspected, or evidence of leakage showing on the covering, the insulation, brick work or covering shall be removed.

2.2.3. When a portable extension light is used in a confined space, it shall not be operated at more than 24 volts.

2.2.4. *Scale, etc.*



All surfaces of the metal on the water side of the boiler shall be examined for deposits due to scale formation. The deposits if any should be cleaned.

2.2.5. All openings leading to external attachments such as water column connections, low water fuel cut off devices, openings in dry pipes and openings to safety valves should be examined to ensure they are free from obstructions.

2.2.6. Bulging, blistering caused by overheating, cracks, corrosion and grooving resulting in metal deterioration should be determined and corrective action initiated.

2.2.7. *Fire tubes and water tubes*

The condition of the tubes should be examined for reduction in thickness, pitting, corrosion, bend, cracks etc.

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2.3. Tests

2.3.1. *Hydrostatic test*

The hydrostatic test shall not exceed 1 1/2 times the maximum allowable working pressure.

2.3.2. *Steam Test*

After every repair, a steam test shall be done and the safety valve shall be set to correct popping pressure and sealed.

2.4. Repairs

Any repair of boiler or its accessories shall be done under the supervision of the competent person approved by EPSS Dubai Municipality. After repairs, the boiler shall be certified by competent person.

2.5. Boiler Attendant

Each boiler shall be operated by a qualified/trained boiler attendant.

3.0. Unfired Pressure Vessels

It is known that there are numerous types of pressure vessels in use. The most commonly found pressure vessels in industry are air receivers, process vessels, gas storage tanks etc. operating above atmosphere pressure.



The surfaces of shells shall be examined for possible cracks, blisters, bulges and other evidences of deterioration.

3.1. External Inspection of Pressure Vessels

External inspection of a pressure vessel is made to determine if its condition is safe for continued operation.

3.1.1. On process vessels where corrosion is a major consideration, the periodical examination will help to determine the reduction in wall thickness, if any.

Any leakage of gas, liquid, vapor should be investigated.

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4. Certification by Competent Person

The safety certification shall be done by the competent person on satisfactory completion of tests and examination of boilers/pressure vessels. The test certificate shall indicate the repairs/alternations/re-rating of working pressure etc. made to the vessel.

If the condition of a boiler or pressure vessel is unsafe for operation, the competent person shall direct the owner or user to remove it from service and send a report to Public Health and Safety Department.

The test certificate shall be made available in the workplace and a copy sent to the Public Health and Safety Department.

**FURTHER INFORMATION IS AVAILABLE FROM
PUBLIC HEALTH AND SAFETY DEPARTMENT
TEL: 2064244/ 2064282 FAX: 2270160**