مؤسسة مدينة دبي للطيران
DUBAI AVIATION CITY CORPORATION

DUBAI AVIATION CITY CORPORATION OHSE CODE OF PRACTICES

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DACC CODE OF PRACTICE - OHSE REQUIREMENTS FOR BOILERS AND PRESSURE VESSELS

1.0 INTRODUCTION

(i) This Code of Practice (CoP) is mandatory to all operational facilities within the Dubai South jurisdiction. This CoP is designed to incorporate requirements set by UAE and other relevant Regulatory authorities. If requirements of this document conflict with requirements set by another regulatory authority, operational facilities are required to follow the more stringent requirement.

(ii) This Code of Practice (CoP) is intended to provide a broad outline of requirements to make a meaningful assessment of the pressure vessel to be used, inspected and maintained. The Duty Holder and competent person should make such assessments as are necessary to evaluate the condition of the pressure vessel.

(iii) Operational facilities means the business units such as Factories, Logistics and Warehouse Facilities, Recreational Facilities, Multi Store Apartments, Retail Facilities, Offices, Educational Institutions, Medical Facilities, etc. and all other facilities which are registered under Dubai Aviation City Corporation (DACC) Licensing and Registration Department and operating in Dubai South Jurisdiction.

(iv) A duty Holder is defined as;

a) the person(s) who owns or is in control, through contact or tenancy, of non-domestic premises;

b) with regard to multiple tenanted premises, the duty holder shall be the person who owns or is in control of the building, including access and egress;

c) All other persons shall cooperate with the with the duty holder to allow them to comply with their duties requirements under this CoP.

(v) A pressure vessel is a container designed to hold gases or liquids at a pressure substantially different from the ambient pressure.

(vi) A boiler is a closed vessel in which fluid (generally water) is heated. The fluid does not necessarily boil. The heated or vaporized fluid exits the boiler for use in various processes or heating applications, including water heating, central heating, boiler-based power generation, cooking, and sanitation.

2.0 TRAINING AND AWARENESS

(i) Duty Holder shall ensure that OHSE training complies with the requirements of Dubai Aviation City Corporation (DACC) - Regulations 6 – Competence Management, Training and Awareness;

(ii) Duty Holder shall ensure personnel required to implement the requirements of this CoP are trained in the requirements and understand the risks associated with boilers and pressure vessels highlighted under Dubai Local Order No. 61/1991 and 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.

3.0 REQUIREMENTS

(i) Boiler design should meet American Society of Mechanical Engineers (ASME) boiler & pressure vessel codes.

(ii) 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.

(iii) 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.

(iv) 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.

(v) 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.

(vi) Proper drainage facility should be provided for the boiler condensate and blow down away from the domestic drainage of the facility.

(vii) Proper sampling point & access ladder to be provided on chimney for emission quality checks.

(viii) 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.

(ix) 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.

(x) 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.

(xi) 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.

(xii) All the inspection/testing records and reports shall be maintained and will be required to be presented as & when required by the Authority.

4.0 RECORD KEEPING

(i) The inspection of boilers and pressure vessels shall be made at the time of installation and at regular intervals of 12 months thereafter.

(ii) It is essential that inspections should be thorough and complete and to be done by an accredited third part from Dubai Municipality.

5.0 REFERENCES

NO.	DOCUMENT NAME	DOCUMENT NO.
1	Risk Management	DACC.OHSE.RF – Regulation 2
2	Leadership, Roles, Responsibility and Self-Regulation	DACC.OHSE.RF – Regulation 5
3	Competence Management, Training and Awareness	DACC.OHSE.RF – Regulation 6
4	PCFC Environmental Guideline for Large Boilers & Furnaces.	Guideline No. 2 2004
5	Ministerial Decision 32 of 1982	Article (16)
6	Dubai Local Order No. 61/1991	No. 61/1991