

INFORMATION FOR THE APPLICATION OF BOILER DESIGN APPROVAL (USED BOILER)

1. The application letter must be from owner, importer, consultant or supplier.

Attention: Prior to the application for boiler design approval of used boiler, a discussion between Head of Design Section and applicant must be made with reference the history of the boiler including maintenance records, inspection and tests done by the previous owner for the early justification before an application is submitted.

2. Must submit original drawing, a fully filled form of [Boiler Appendix](#). and other related document.
3. Three copies of design drawings showing the principal dimensions of the steam boiler with views of the front, side and end elevations. The drawings must be furnished with the following information's and to be certified by any recognized Inspecting Authority [according to **Forth Schedule of Factories and Machinery (Steam Boiler and Unfired Pressure Vessel) Regulations 1970 of Factories and Machinery Act. 1967**] :
 - a. Main dimensions
 - b. Welding details
 - c. Service, orientation and dimension of each nozzles
 - d. Details of flange specifications
 - e. Details of material specifications
 - f. Design pressure, design temperature, working pressure, working temperature, test pressure, design code, Non Destructive Testing (NDT) details, welding efficiency, corrosion allowances and etc
 - g. Detail drawings of any components and welding including reference and configuration must be noted on the drawing
 - h. Full assembly drawing of the boiler showing the essential fittings. A figure of pipeline and instrumentation must be submitted if the safety features didn't installed on the boiler itself
 - i. other useful information (if any)
4. Confirmation of the required thickness by design calculation in accordance with one of the latest version of the recognized design code which has been used during fabrication.
5. Full inspection by any recognized Inspecting Authority where they certified the condition of the boiler is safe to use under known safe working pressure. The inspection report must be furnished with the following information's and not limited to:
 - a. Internal and external visual inspection of the boiler
 - b. Non Destructive Test (NDT) on the main weld-ment areas of the boiler including nozzles and etc
 - c. Thickness measurement at the pressure parts
 - d. Hardness Test on materials

6. Items (4) to (5) must be witnessed and reported by the DOSH Inspector and/or the recognized Inspecting Authorities.
7. Further information with regards to the above matters and so forth can be obtained from the Factories and Machinery (Steam Boiler and Unfired Pressure Vessel) Regulations 1970 of Factories and Machinery Act. 1967 (Act. 139) and Regulations and Rules.

Notes: Importer, consultant or supplier is advised to get the design approval for the particular boiler first before purchase or bring the machine into Malaysia.

BOILER APPENDIX

INFORMATION FOR THE APPLICATION OF BOILER DESIGN APPROVAL

1	Reference Letter			
2	Date of Receive			
3	Processing Status			
4	Applicant Name and Address			
5	Type of Boiler			
6	Model (if any)			
7	Heating Surface (m ²)			
8	Design Drawing No.			
		Boiler	Economizer	Thermal Oil Heater
9	Safe Working Pressure (kPa)			
10	Test Pressure (kPa)			
11	Design Temperature (Celcius)			
12	Design Code			
13	Capacity (kg/hr)			
14	Owner			
15	DOSH State			
16	Manufacturer			