

INFORMATION FOR UNFIRED PRESSURE VESSEL DESIGN APPROVAL (USED)

ANNOUNCEMENT

- i. Any incomplete application will be rejected. **Incomplete application includes the submission without letter of application, design drawing, design calculation, Manufacturer Data Report or Inspection report by the recognized Inspecting Authority.**
- ii. **Note: Prior to the application of design approval for used vessel, discussion between Head of Design Section and applicant must be made with reference the history of the unfired pressure vessel including custom declaration form, maintenance records and tests done by the previous owner. This information's is needed for assessment purpose by department before any application submitted.**
- iii. **Importer, consultant and owner is reminded to obtain design approval for unfired pressure vessel (used) before doing any purchasing or importing to this country.**

NEW APPLICATION

1. Application letter shall be issued by **supplier, importer, consultant** or **owner**. The letter shall be using the letterhead of the applicant and addressed to the Director General.
 - i. **Please indicate the location of hydrostatic test in Malaysia and location of the installation unfired pressure vessel in the application letter.**
2. Documents that shall be attached when submitting the application are as follows:
 - i. **Design drawing** shall be furnished with the following:
 - a. Main dimensions.
 - b. Welding details.
 - c. Service of nozzles & orientation of nozzles.
 - d. Details of material specifications.
 - e. Design data such as design pressure, design temperature, working pressure, working temperature, test pressure, design code, working media, volume, corrosion allowance, welding factor, flange rating and etc.
 - f. Detail drawings of any components and welding including reference or configuration must be noted on the drawing.
 - g. Location of main safety features such as pressure gauge and safety valve.
 - h. Other useful information, if needed.
 - ii. Confirmation of **design calculation** must be based on current thickness in accordance with original version of design code.

- iii. A **comprehensive report by the recognized Inspecting Authority by the Department** must be provided to prove the vessel is fit for service at identified design pressure. The report must cover all items, and not limited to:
 - a. Internal and external visual inspection of the pressure vessel.
 - b. Non-destructive test at all welding joint.
 - c. Thickness measurement.
 - d. Hardness test on material
- iv. Documents submitted shall be in **Malay or English Language**. Any translations made shall be done by the manufacturer, recognized Inspecting Authority by the Department or recognized translation Institution.
- v. For further information, please refer to Factories and Machinery (Steam Boiler and Unfired Pressure Vessel) Regulations, 1970 and Factories and Machinery Act, 1967.