INDUSTRIAL SAFETY DIVISION

DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH MALAYSIA

APPLICATION GUIDE FOR DESIGN VERIFICATION OF USED IMPORTED PRESSURE VESSEL

2025

Contents

1.0 INTRODUCTION

This application guide serves as a reference for applicants submitting online applications of used imported pressure vessel design verification via MySKUD system. This aims to provide applicants with clear and accurate guidance to help them meet all application requirements.

2.0 ENABLER

The Occupational Safety And Health (Plant Requiring Certificate Of Fitness) Regulations 2024 are provisioned under the Occupational Safety and Health Act 1994, Section 27B, whereby the Minister may specify any plant for which a certificate of fitness is required. These regulations came into operation on 1 June 2024.

The enabler power to application guide is pursuant to Section 27C of the Occupational Safety and Health Act 1994, whereby the Director-General may grant an approval subject to such terms and conditions as the Director General may impose.

3.0 INTERPRETATION

i. Pressure vessel means an enclosed vessel with pressure greater or less than atmospheric pressure.

ii. Fired pressure vessel (FPV) means a closed pressure vessel with pressure greater or less than atmospheric pressure that has any heating element that does not generate steam. Examples of FPV machinery include Hot Water Boilers, Fired Heaters, Electrical Heaters, and others.

4.0 SCOPE

4.1 SCOPE OF APPLICATION

i. Applications for plant (pressure vessel) design verification are divided into two pressure vessel categories:

a. fired pressure vessels

b. unfired pressure vessels

Applications submitted in the MySKUD system must accurately reflect the vessel category.

ii. The scope of application is only applicable to used imported pressure vessels which are manufactured by the origin manufacturer outside of Malaysia and have previously been in operation.

4.2 NON-APPLICATION

The scope of this application does not apply to pressure vessels specified in the Second Schedule, Occupational Safety And Health (Plant Requiring Certificate Of Fitness) Regulations 2024.

5.0 APPLICATION REQUIREMENTS

i. Every document submitted must be in either **Malay or English**. Any translations must be done by the manufacturer or an official translation institution.

ii. Prior to submitting an application for the design verification of a used imported pressure vessel, a preliminary discussion with the Head of the Design Section, Industrial Safety Division is mandatory. This discussion must include the provision of the pressure vessel's background information, a customs declaration letter, maintenance records, and records of inspections and tests performed by the previous owner, to facilitate initial evaluation before formal application submission.

iii. The application for used imported design verification must adhere to the document requirements stipulated in Item 7: Application Documents.

6.0 INSTRUCTION FOR FILLING OUT APPLICATION DETAILS

Required information for the Used Imported Pressure Vessel Design Verification Application Form:

DETAILS	NOTES
VESSEL TYPE	
1) Vessel Type*	Select the type of vessel based on the interpretation of vessels, whether it is a fired pressure vessel or an unfired pressure vessel
APPLICANT INFORMATION	
2) Applicant's Name*	For used imported pressure vessels, the application may be submitted by any party associated with the pressure vessel.
3) Applicant's Address*	The address of the party making the application

DETAILS	NOTES
4) Name of Contact Person	Name of the company officer who can be contacted
5) Phone Number*	Telephone number of the company officer mentioned above
6) Email*	Email of the company officer mentioned above
7) Technical Officer's Name*	Name of the technical officer who can be contacted
MANUFACTURER INFORMATION	
8) Manufacturer Name*	Name of the company manufacturing the pressure vessel Example: KNZH Sdn. Bhd.
9) Manufacturer Address*	Address of the company mentioned above.
VESSEL INFORMATION	
10) Type of Pressure Vessel*	Select the type of pressure vessel information as stated in the MySKUD system
11) About Pressure Vessels *	Fill in the name of the pressure vessel as shown in the design drawing
12) Model*	Fill in the model information of the pressure vessel as shown in the design drawing. Enter (-) if not applicable.
13) Year of Manufacture*	Select the manufacturing year of the pressure vessel
14) Serial No.*	Fill in the serial number of the pressure vessel. Enter (-) if not applicable.
15) Working Media*	Fill in the working media of the pressure vessel
16) Dimension (mm)*	Fill in the dimensions such as length, width, and height of the pressure vessel. Enter (-) if not applicable.
17) Diameter (mm)*	Fill in the internal and external diameters of the pressure vessel.

DETAILS	NOTES
18) Volume (m^3)*	Fill in the total volume capacity of the pressure vessel
19) Design Drawing No.*	Fill in design drawing numbers as attached.
DESIGN PRESSURE AND TESTING INFORMATION	
20) Recognized standard*	Fill in the recognized standard (design code) information according to the latest edition or amendment as listed in the Fourth Schedule, Occupational Safety And Health (Plant Requiring Certificate Of Fitness) Regulations 2024.
21) Design Temperature*	Fill in the design temperature information as indicated in the design drawing
22) Design Pressure (kPa)*	Fill in the design pressure in kilopascal (kPa) units as indicated in the design drawing
23) Type of pressure test*	Select the type of pressure test as listed in the MySKUD system
24) Test Pressure (kPa)*	Fill in the test pressure information in kilopascal (kPa) units based on calculation.
OWNER INFORMATION	
25) Owner's Name*	Fill in the owner's name for the pressure vessel
26) Owner's Address*	Fill in the owner's address for the pressure vessel
ESSENTIAL FITTINGS INFORMATION	
27) Pressure Relief Valve*	Fill in the nozzle number information for the Pressure Relief Valve connection by referring to the design drawing number
28) Pressure Gauge*	Fill in the nozzle number information for the Pressure Gauge connection by referring to the design drawing number
29) Manufacturer’s Name Plate*	Fill in the design drawing number containing the manufacturer's name plate drawing Enter (-) if the applicant submits a rubbing nameplate.

7.0 APPLICATION DOCUMENTS

Please upload the necessary documents for design verification of used imported pressure vessels application. Documents marked (*) are mandatory. If required, please fill in any comments in the remarks section.

DOCUMENTS	EXPLANATION NOTES
1. Minutes of meeting with the Head of the Design Section, Industrial Safety Division*	i. Before submitting an application for used imported pressure vessel design verification through the MySKUD system, it is mandatory for the pressure vessel owner to conduct a discussion with the Head of the Design Section, Industrial Safety Division. ii. The outcome of the meeting must be minuted and verified by the Head of the Design Section, Industrial Safety Division. The verified meeting minutes must be submitted within the MySKUD system during the design verification application process.
2. Design drawings verified by an authorized inspecting body	Design drawings, including general arrangement (GA) drawings and detailed drawings of each pressurized component, verified by an authorized inspecting body. Design drawings must be complete with the following information: ● Design data such as design pressure, design temperature, operating pressure, operating temperature, test pressure and type of pressure test, current recognized standards, non-destructive testing (NDT), working media, etc. ● Main dimensions ● Welding details ● Orientation, dimensions, and function for each nozzle ● Specifications of construction material ● Essential fittings
3. Design calculation*	Design calculations based on recognized standards as per the Fourth Schedule, Occupational Safety and Health (Plants Requiring Certificates of Fitness) Regulations 2024, and verified by an authorized inspecting body.
4. Previous usage records*	Examples:

DOCUMENTS	EXPLANATION NOTES
	• Pressure vessel usage records; or • Usage data from Data Control System (DCS)/ SCADA for at least the most recent 1 year of usage.
5. Records to verify that the pressure vessel has never experienced any deterioration for any reason*	Examples: • Maintenance records • Repair records
6. Integrity report certified by an authorized inspecting body regarding the inspection and testing of the pressure vessel*	A comprehensive report certified by an authorized inspecting body to prove that the pressure vessel is still usable at the identified safe design pressure. The report must include, but is not limited to this information: • Internal and external visual inspection of the pressure vessel • Positive Material Identification (PMI) • Non-Destructive Testing at welded locations • Thickness measurement • Material hardness testing • C-scan for thermal defects, if applicable
7. Report certified by an authorized inspecting body on the remnant life of the pressure vessel*z	i. A report containing the type of damage and risk ranking according to international recognized standards based on previous assessment records (damage mechanism within acceptance criteria). ii. This report must include the remaining lifespan calculation of the pressure vessel based on the current thickness, according to recognized standards.
8. Manufacturer data report*	A report certified by the origin manufacturer containing information regarding the materials used, test and inspection reports conducted.
9. Other documents	Other relevant documents.

8.0 INFORMATION

i. The Department reserves the right to reject the application or withdraw design verification approval at any time if it is found that:

a) It does not comply with or violates any terms and conditions stipulated by the Director General under Section 27C.(3), Occupational Safety and Health Act 1994 as stated in the verification letter; or

b) It falsifies application documents and information; or

c) It has violated any other terms and conditions issued by the Department from time to time.

ii. Each pressure vessel shall be tested as specified in the design verification before being operated and witnessed by an authorized inspecting body recognized by the Department as listed in the First Schedule, Occupational Safety And Health (Plant Requiring Certificate Of Fitness) Regulations 2024.

9.0 FEES

Every application of used imported pressure vessel design verification shall be accompanied with a processing fee as follow:

NO.	MATTER	FEE (RM)
1.	Capacity less than 1 cubic meter	300
2.	Capacity of 1 cubic meter and above but less than 5 cubic meters	600
3.	Capacity of 5 cubic meters and above	1,000

Any fee paid for this used imported pressure vessel design verification application shall not be refundable.

10.0 CLIENT CHARTER

Applications submitted with complete documents will be processed within 15 working days from the date of receipt of the application.

Pressure Vessel Unit
Design Approval Section
Industrial Safety Division
Department of Occupational Safety and Health
Reference: 5/2025 (Updated)