

Empowered *workforce*, Thriving *workplaces*

New Addition to the Pressure Vessels Extension Schemes

30 Oct 2025

Er. Christopher Toh

Specialists Department

Occupational Safety and Health Division

Ministry of Manpower



Agenda

Pressure Vessels Extension Schemes

A. Introduction

B. History

C. Latest Addition



Introduction to Extension Schemes

Pressure vessels, which include Steam Boilers, Steam Receivers and Air Receivers, are high risk equipment used in workplaces and are required to be tested and examined by Authorised Examiners at regular intervals (1 or 2 years) under the Workplace Safety and Health (General Provisions) Regulations.

MOM recognised the need for workplaces which require longer test and examination intervals for their pressure vessels due to operational needs, such as those with pressure vessels which are connected as part of a continuous process in a plant.

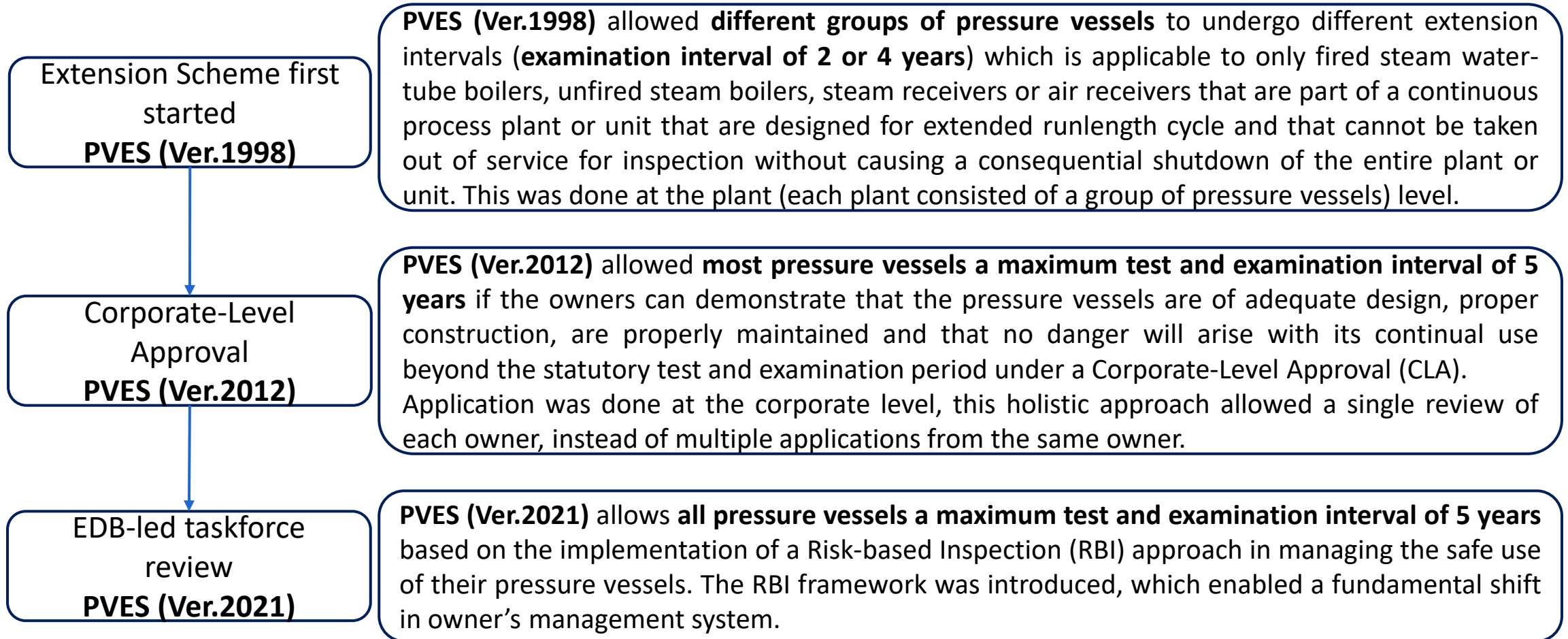
Introduction to Extension Schemes

In 1998, the **Pressure Vessel Extension Scheme** was launched.

This scheme allowed Fired Steam Boilers (higher risk) to be tested and examined at intervals up to 2 years and Unfired Steam Boilers, Steam Receivers and Air Receivers (lower risk) to be tested and examined at intervals up to 4 years.

Owners of pressure vessels were required to demonstrate that they were able to operate their pressure vessels safely for an extended period with the implementation of additional monitoring mechanisms and adoption of Non-Destructive Examination (NDE) methods.

History of Extension Schemes



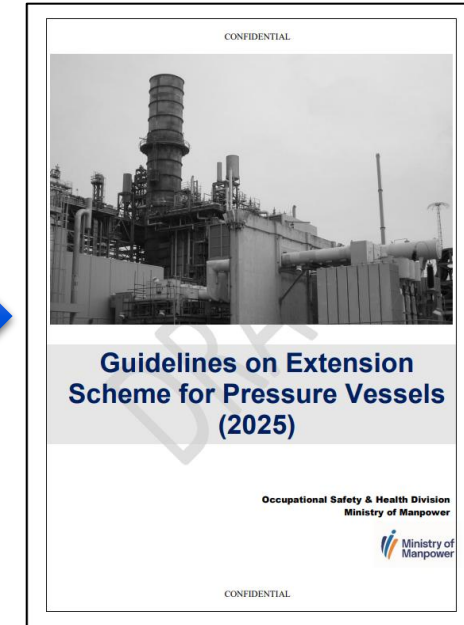
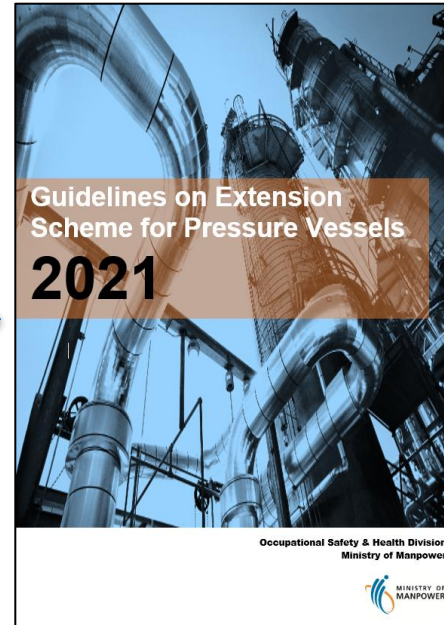
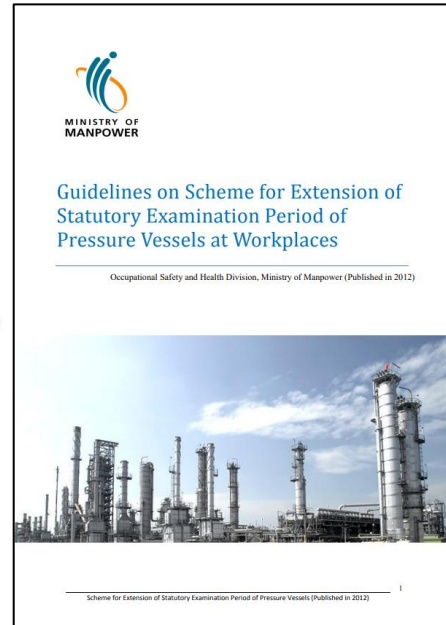
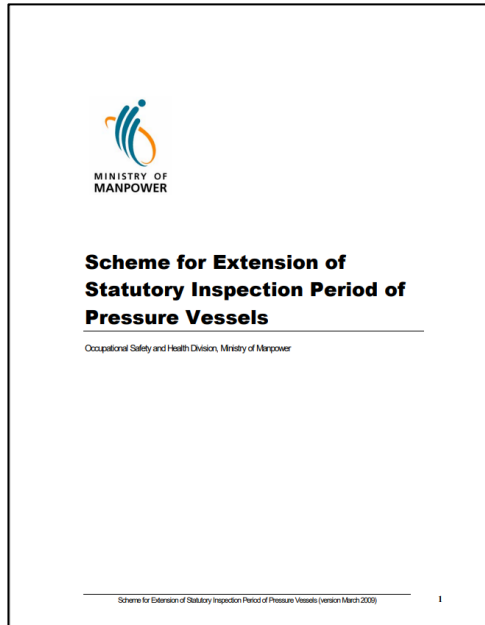
Latest Addition to Extension Schemes

The main features under the Pressure Vessel Extension Scheme (Version 2025) are:

- a. The test and examination intervals will be up to 7 years;
- b. Companies to implement real-time monitoring of vessels' operations, with the data to develop the RBI assessments and the inspection methodology;
- c. Competent Person to review, assess and make recommendations regarding on-stream inspection activities;
- d. Companies to conduct thermographic inspections of Fired Steam Boilers for hot-spot detection;
- e. To ensure the robustness of the RBI implementation, the RBI system shall be based on an international standard and personnel requirements have been tightened (team leader shall be certified, introduction of core RBI members, all RBI members shall be trained).



Latest Addition to Extension Schemes



MOM-SCIC review
PVES (Ver.2025)

PVES (Ver.2025) allows all pressure vessels a maximum test and examination interval of 7 years based on a suite of enhanced measures (implement real-time monitoring of vessels' operations, with the data to develop the RBI assessments and the inspection methodology, RBI team to be certified and trained, etc.) to be undertaken by the owners in managing the safe use of their pressure vessels.



Thank you