Definition of a Pressure Piping System (The Boiler & Pressure Vessel Act, Clause 2(r)):
- means pipes, tubes, conduits, gaskets, bolts and other fittings making up a system, the sole purpose of which is the conveyance of an **expansible fluid** under pressure and the control of the flow of an **expansible fluid** under pressure between two or more points.

Where **expansible fluid** means (The Boiler & Pressure Vessel Act, Clause 2(g)):
(i) any vapour or gas; or
(ii) any liquid that will change to a vapour or gas at atmospheric conditions.

**NOTE 1**: A **SYSTEM** is defined as all interconnected piping at one location which includes any skids (portable or stationary) that are connected to the distribution piping. Skids shall be part of the total aggregate internal capacity unless the pressure piping contained on the skid is **NOT** connected to any distribution piping.

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**Pressure Piping System Exemptions from the Legislation and/or Design Registration**

**Start**  
Policy Paper  
TSASK-2016-07-01

**Is the pressure piping system a pipeline as defined by The Pipelines Act?**  
**[ACT 3][1]a)**

**Is the pressure piping system a gas installation as defined by the Gas Licensing Act?**  
**[ACT 3][1]b)**

**Is the fluid non-expansible?**  
**[ACT 7][1]p]**

**Does the system contain hot water at a pressure of 1105 kPa (160 psi) or less and forms part of a low pressure boiler plant?**  
**[REG 3][1]a)**

**Does the system contain hot water at a temperature of 121°C (250°F) or less and forms part of a low pressure boiler plant?**  
**[REG 3][1]a)**

**Is the system medical gas piping?**  
**[REG 3][1]c)**

**Is the system air piping with a diameter of 25.4 mm (1") or less?**  
**[REG 3][1]d)**

**Does the system have an aggregate internal capacity (volume) of 0.5 meters³ (17.7 feet³) or less?**  
**[REG 26]**

**Exempt**

**System is exempt from Design Registration.**  
All fabrication/construction shall be in accordance with a registered QCP/QMS manual and done by a licensed Contractor.

Submit TSASK-1002 Construction Data Report for Pressure Piping Systems to TSASK Codes & Standards Compliance (CSC) when fabrication is complete.  
**Note**: Fabricators shall complete TSASK-1002 for all repairs (like for like) and retain for their records as per their QCP/QMS programs. TSASK-1002 for repairs does not need to be submitted to CSC for retention but shall be made available to TSASK upon request.

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**Is the statement, “The system is not connected to nor used in conjunction with a boiler or pressure vessel” true?**  
**[REG 3][1]b)**

**YES**

**Exempt**

**NO**

**Is the system a gas installation as defined by the Gas Licensing Act?**  
**[ACT 3][1]b)**

**YES**

**NO**

**Is the system a pipeline as defined by The Pipelines Act?**  
**[ACT 3][1]a)**

**YES**

**NO**

**Link to TSASK-1011 Flowchart**

**Complete**

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**The design of the system requires registration.**

1

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Refer to Form TSK-1011 Application for the Registration of a Pressure Piping Design

Complete the following:
- Fill in Part IV(A).
- In Part IV(B), select 1.
- In Part IV(C), check the box and attach 3 copies of TSK-1003 and check second box if a signed/stamped copy is required.
- Fill in Part V – make sure to provide a tracking number, how many packages will be in the total submission and location details.
- Fill in Parts VI to IX.

Submit application to TSASK.
Are you the owner of the registered piping material specifications?

- YES
  - Fill in Part II – TSK-1011 with:
    - Piping Material Specification Registration #;
    - QCP/QMS Registration #

- NO

Are you going to use the owner’s registered piping material specifications?

- YES
  - Fill in Part II – TSK-1011 with:
    - Piping Material Specification Registration #;
    - QCP/QMS Registration #;
    - include a letter from QMS/QCP manual holder stating that you are using the QMS/QCP manual holder’s specifications.

- NO

Have you verified that your piping material specifications are the same as the owner’s?

- YES
  - Fill in Part II – TSK-1011 with:
    - Piping Material Specification Registration #;
    - QCP/QMS Registration #;
    - include a letter stating that, with the owner’s permission, you have verified compliance with the QMS/QCP manual holder’s specifications.

- NO

You are not eligible to use the option for a Piping Design Audit.

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Back to TSK-1011 Flowchart
Requirement for a Pressure Piping Design Submission with Pressure Relief Path Stop Valves

Do you have a registered PRP SVC Program with TSASK? 

- Yes: Select on TSK-1011 Part III either:
  - PRP SVC Program Registration # or
  - QMS Number if PRP SVC Program is part of the QMS manual

  Is the site in the registered program? 
  - Yes: Owner shall submit TSASK Form TSK-0015 notifying TSASK of the addition of the site to the owner’s current PRP SVC program.
  - No: A conditional registration may be issued until TSK-0015 has been received by TSASK and processed.

  Owner shall submit:
  - Justification for having the stop valves in the pressure relief path
  - Table indicating the compliance with the specific paragraph in ASME Sec VIII Div 1 Appendix M or ASME B31.3.
  - Acknowledgement that the Owner is aware of the code requirements
  - Calculations to support the specific Section of Appendix M if required.

- No: Remove the relief path stop valves from the design.

Do you want to register a PRP SVC Program? 

- Yes: Select and provide information requested (TSK-1011 Part III):
  - Copy of TSK-1012 Application for the Registration of a PRP Stop Valve Control Program completed
  - or QMS application – done electronically so shall include TSASK order number or name on credit card

5 Link to Application for a PRP SVC Program
6 Link from Application for a PRP SVC Program
7 Back to TSK-1011 Flowchart

From TSK-1011 Flowchart
Application for the Registration of a Pressure Relief Path (PRP) Stop Valve Control (SVC) Program

Do you have a Quality Management System (QMS)?

- **Yes**: Refer to Information Paper IP-2016-07-07 Application for the Registration of a Pressure Relief Path Stop Valve Control Program
- **No**: Create a PRP SVC Program section of your QMS Manual. Fill in all the information required (except parts A, B & F) as outlined in the information paper.

Do you want to make an addition to your QMS Manual for a PRP SVC Program?

- **Yes**: Create a PRP SVC Program section of your QMS Manual. Fill in all the information required (except parts A, B & F) as outlined in the information paper.
- **No**: The next steps are for filling in TSK-1012 Application for the Registration of a Pressure Relief Path Stop Valve Control Program.

The next steps are for filling in TSK-1012 Application for the Registration of a Pressure Relief Path Stop Valve Control Program.

Fill in Part I. Company Information and sign and date.

In Part II. Application Information, check the box for New Application.

Part III. Site Information shall be completed on the form if no more than 4 sites are included in the program. For more than 4 sites, submit electronically or on a flashdrive.

Following the instructions of Part IV. Submission Requirements, submit the new sections of your QMS manual complete with site details to TSASK. Electronic format is recommended & preferred.

TSASK will arrange an audit for the PRP SVC program.

From PRP SVC Flowchart

To PRP SVC Flowchart

Page 5 of 6
Registering a Skid Design

TSASK has provided manufacturers with an option to register their skid designs with TSASK much like the fitting process already in place. Once the skid design is registered, manufacturers are then allowed to fabricate several of the same skids without re-registering the design. Manufacturers shall submit TSK-1002 Construction Data Report for Pressure Piping Systems to TSASK Codes & Standards Compliance for each skid fabricated. Registered designs expire after 10 years – just like a fitting.

**TSASK defines a skid as:**
- a metal plate or frame pallet used for mounting pressure piping and/or pressure equipment.

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**Application for the Registration of a Skid Design**

Is the skid design a stand alone pressure piping design not intended to be connected to distribution piping?

- **YES**
  - Is the aggregate internal capacity (volume) of the skid pressure piping less than 0.5 m³ (17.7 ft³)?
    - **YES**
      - Design registration is not required. However, manufacturers shall submit TSK-1002 Construction Data Report for Pressure Piping Systems to TSASK Codes & Standards Compliance when construction is complete.
    - **NO**
      - Complete
  - **NO**

- **NO**
  - Complete

**Design Registration Details**

- Complete the following on TSK-1011:
  - Fill in Part IV(A) if known.
  - In Part IV(B), select 3.
  - Part IV(C), check the first box and attach 3 copies of TSK-1003 and check second box if a signed/stamped copy of the drawings is required.
  - Fill in VI to IX.
  - Submit to TSASK Codes & Standards Compliance.

**Whenever a skid is fabricated:**

- On TSK-1002 Construction Data Report for Pressure Piping Systems:
  - In Part I, fill in both the TSASK Skid Design Registration Number and the Manufacturer’s identification/serial number for the skid.
  - Submit TSK-1002 Construction Data Report for Pressure Piping Systems to TSASK Codes & Standards Compliance when construction is complete.

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From TSK-1011 Flowchart

Refer to Information Paper IP-2016-07-04 Application for the Registration of a Skid Design

Complete