Technical Safety Authority of Saskatchewan

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Application for the Registration of a Pressure Piping Design Using a Single Submission Package

Information Paper IP-2016-07-02

Contents

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1. Scope

This information paper details how to apply for the registration of a pressure piping design using only one submission package which includes all the information the TSASK Design Reviewer will need to register the design. The design cannot be part of a larger design that is being submitted for registration.

Please return to Policy Paper *TSASK-2016-07-01 Application for the Registration of a Pressure Piping Design* for detailed information on other submission requirements once you have finished reading this paper.

2. Application Requirements - General

The application shall include:

- A completed online Application for the Registration of a Pressure Piping Design. Under Part IV(B), check box 1 that states:
  "*A single submission pressure piping design registration application. There will be no additional pressure piping submission packages submitted in conjunction with this application. See IP-2016-07-02.*"
- A completed, stamped and signed *TSK-1003 – General Engineering Requirements for Design & Construction of Pressure Piping Systems*.
- If applicable, the registration number of the Owner's Pressure Relief Path (PRP) Stop Valve Control Program or QMS registration number if the PRP Stop Valve Control program is part of the Owner's QMS (*Part III*).

3. Information Required as Part of the Submission

Please ensure that the design drawings and design documents include the following:

- P&ID depicting the general arrangement of all boilers, pressure vessels, pressure piping systems and/or fittings;
- Pressure piping line lists detailing the piping specifications and design conditions (size of the line, material specifications, schedules, maximum pressures and temperatures, MDMT if applicable, corrosion allowance, radiography, test medium and pressure, and PWHT time and temperature) for each pressure piping system unless you have your piping material specifications registered with TSASK as part of the QCP/QMS option. If the piping material specifications are registered, provide the piping material specification registration number in Part II. Ensure that the line list is very clear which specification covers each line. Maximum pressures and temperatures, and line sizes as well as any other information not specified on the piping material specification shall be included on the line list;
- A list of pressure relief devices (PRD) to be used in the pressure piping system including their capacities and set pressures (indicating the equipment each PRD is protecting is beneficial);
- A detailed description of the pressure test/leak test procedure (depending on Code of Construction) if different from the procedure within the QMS/QCP manuals;
- A signed letter from the owner of the pressure piping system acknowledging specific lines designated as **Category D** fluid service if applicable;
- Any other information that the TSASK Design Reviewer may require to ascertain that the design is suitable for registration;
- Design drawings and piping line lists **shall be** stamped, dated and signed by a Professional Engineer as defined in *The Engineering and Geoscience Professions Act* of Saskatchewan; and
- Complete and sufficiently detailed drawings so that Design Reviewers will not have to assume anything and the same drawings and specifications could be used to build the exact system and have it meet the code.

Refer to *IP-2016-07-05 - Pressure Piping Registration Submission Package Checklist*.

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4. Fabrication of Pressure Piping Systems

4.1. TSK-1002 Construction Data Report for Pressure Piping Systems

Refer to information paper *IP-2014-03-001 Guide for Completing Form TSK-1002 Construction Data Report for Pressure Piping Systems* for guidance on completing *TSK-1002*. Ensure you are using the most recent copy of IP-2014-03-001 by checking the footer which should have Rev.2/2026.

Fabricators shall ensure that pressure piping lines are clearly identified so that any inspector can easily match the lines on *TSK-1002* with the lines in the field. Additional information may be required to ensure the materials can be verified such as Mill Test Reports, Purchase Orders and/or delivery information.

As per the QMS/QCP manual being followed, TSASK shall be notified prior to the commencement of fabrication. If the pressure piping system is to be fabricated for inventory, the fabricator shall inform the TSASK Inspector that there is no owner inspector.

4.2. Welding

4.2.1. Fabrication inside Saskatchewan

All welding shall be performed in accordance with ASME Section IX to a qualified welding procedure registered with TSASK in conjunction with a TSASK registered Quality Control Program (QCP) or Quality Management System (QMS). Refer to CSA B51-14 *Clause 4.5.1 & 4.5.2*.

4.2.2. Fabrication outside of Saskatchewan but within Canada

Fabricators shall follow the requirements of the jurisdiction of record and the owner's requirements. Refer to CSA B51-14 *Clause 4.5.1 & 4.5.2*.

4.2.3. Fabrication outside of Canada

Fabricators shall follow the guidance of CSA B51-14 *Clause 4.5.3* for fabrication outside of Canada.

As a minimum, fabricators shall provide TSASK with the:

- name and qualifications (specifically National Board Number or equivalent) of the inspector or third party authorized inspection agency employing the inspector;
- Code of Construction (ASME or equivalent);
- owner's requirements; and
- evidence of an approved quality control program (or equivalent).

Fabricators are strongly advised to seek TSASK acceptance prior to starting any work.

4.3. Pressure Test/Leak Test

All pressure piping systems shall be subject to a pressure test/leak test (depending on the Code of Construction) as described in the fabricator's QCP or QMS manual (or jurisdictional equivalent) and notification shall be given to the appropriate inspector with as much lead time as possible so the required inspector may make arrangements to witness the test.

If a shop fabricated piping system is not pressure tested/leak tested in the shop, arrangements shall be made by the fabricator to complete the required pressure test/leak test onsite and the test shall be witnessed by the appropriate inspector.

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5. Additional Information & Questions

5.1. *Design of Pressure Piping Systems Inquiries*

If possible, applicants should contact their Design Reviewer directly with questions. Be sure to include the TSASK reference number or provide enough detail that the Design Reviewer will know which application is being referenced.

For all other design inquiries, please contact TSASK Codes & Standards Compliance:

- By email at info@tsask.ca;
- By phone at (866) 530-8599. Please ask to speak to either a TSASK Design Reviewer or the Manager, Codes & Standards Compliance; or
- Visit the TSASK website at www.tsask.ca for more information.

5.2. *QMS/QCP and Inspection Inquiries*

For additional information or if there are any further questions or concerns, please contact TSASK:

- By email at info@tsask.ca;
- By phone at (866) 530-8599. Please ask to speak to a TSASK inspector or the Manager, Boiler and Pressure Vessel Safety; or
- Visit the TSASK website at www.tsask.ca for more information