

Guide for Completing Form TSK-1002 Construction Data Report for Pressure Piping Systems

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1. Scope

The scope of this paper is to provide guidance in the completion of [TSK-1002 Construction Data Report for Pressure Piping Systems](#).

2. Background

The form *TSK-1002 Construction Data Report for Pressure Piping Systems* is required for documenting new construction, repairs and alterations of a pressure piping system and for certifying that the work has been done in accordance with the *Boiler and Pressure Vessel Act* and Regulations for Saskatchewan and with CSA B51 and the applicable ASME piping code(s).

The following sections of this information paper describe the information required for completing each section of the form.

3. Part I – Registered Pressure Piping Skid Designs

Manufacturers who have registered skid designs with TSASK shall fill in this section of the form. If this does not apply to you, go to Part II.

Manufacturers shall supply the TSASK Skid Design Registration # and provide the Manufacturer's Identification/Serial #. For more information, please refer to [IP-2016-07-04 Application for the Registration of a Skid Design](#).

4. Part II - Construction Information

The following shall be filled in:

4.1. Field Construction/Shop Construction

Indicate whether the pressure piping system work has been done in the shop or at a field site.

4.2. TSASK Pressure Piping Registration Number – All Designs

TSASK is now issuing pressure piping registration numbers for all locations with pressure piping systems. Each address or land location shall have a unique pressure piping registration number which will be in the form PPXXXXX. Applicants shall be give a unique file number for each application submitted but the registration number will not change as the number is tied to the location.

This registration number will be required on all pressure piping system data reports regardless of the aggregate volume.

Fabricators shall register all designs whose aggregate piping volume is over 0.5 m³. However, if the volume is less than 0.5m³ and the final location of the skid is known, fabricators do not have to register the design but shall supply the registration number for the location of installation on *TSK-1002*. If the fabricator does not know the registration number, the fabricator shall contact TSASK who shall provide the number.

4.3. Constructor's Name and Address

Specify the name of the company that is fabricating the piping. If the fabrication of the piping has been subcontracted, then the subcontractor's name and address shall be filled in here and the primary contractor's name shall be indicated in Part 4.4.

A primary contractor is the company that was awarded the contract by an owner. A subcontractor is the company that has been hired by the primary contractor to do part of the work.

4.4. Constructed for

State the name of the primary contractor if the work is being done by a subcontractor as defined in 4.3. If the

work is not being done by a subcontractor, indicate “Not Applicable”. “N/A” is acceptable.

4.5. Job Number

Provide the owner’s or primary contractor’s job number.

4.6. Owner

State the name of the owner of the pressure piping system. If the piping is part of a skid that is going to inventory until it is sold, indicate “Inventory” on the form.

If the piping skid is going to inventory, the fabricator shall contact TSASK as part of their QMS/QCP and shall notify the TSASK Inspector that there is no owner inspector.

4.7. Location of Install

State the location of installation of the pressure piping system. This location shall be linked to the TSASK Pressure Piping Registration number provided in 4.2 if installation is within Saskatchewan. If the piping is part of a skid that is going to inventory until it is sold, indicate “Inventory” on the form.

4.8. Quality Management System (QMS) or Quality Control Program (QCP) Registration Number

Fabricators shall supply the Registration Number and expiry date of the QMS/QCP being followed to fabricate the piping. If the owner or primary contractor’s program is being followed, indicate that on the form by putting the appropriate name (owner or primary contractor) in brackets behind the QMS or QCP Registration Number.

4.9. Welding Procedure Specification (WPS) and Constructor’s WPS Reference Numbers

4.9.1. Complying with the requirements of CSA B51-14

As per CSA B51-14 Clause 4.5:

4.5.1 *Welding and brazing procedures, procedure qualifications, and performance tests shall be as specified in, or the equivalent of, the procedures, qualifications, and tests specified in:*

(a) *Section IX of the ASME Code; and*

(b) *the code to which the pressure-retaining component is either manufactured or installed.*

4.5.2 *Welding or brazing tests for equipment fabricated **in Canada** shall be acceptable for the purposes of Clause 4.5 only if approved by the regulatory authority of the province where the welding or brazing is to be performed.*

4.5.3 *Welding or brazing tests for equipment fabricated **outside Canada** shall be acceptable for the purposes of Clause 4.5 only if approved by an inspector or authorized inspection agency approved by the regulatory authority in the province of installation.*

4.9.2. Requirements for TSK-1002

Fabricated within Saskatchewan:

Indicate both the TSASK WPS registration number and the fabrication company’s WPS reference number. If the owner or primary contractor’s program is being followed, indicate that on the form by putting the appropriate name (owner or primary contractor) in brackets behind the TSASK WPS Registration Number and the Fabricator’s WPS Reference Number.

Outside of Saskatchewan but within Canada

Indicate both the jurisdictional WPS registration number and the fabrication company’s WPS reference number. If the owner or primary contractor’s program is being followed, indicate that on the form by putting the appropriate name (owner or primary contractor) in brackets behind the jurisdictional

WPS Registration Number and the Fabricator’s WPS Reference Number.

Outside of Canada

Indicate the number of the WPS used during fabrication. Fabricators shall submit evidence that the WPS meets the requirements of ASME Section IX or equivalent and that the WPS has been accepted for use by either a recognized inspector or an authorized third party agency employing the inspector.

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

As a minimum, in order for TSASK to accept the WPS, fabricators shall provide TSASK with the:

- name and qualifications (specifically National Board Number or equivalent) of the inspector or third party authorized inspection agency providing the inspection services;
- 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. If the skid is being installed in Saskatchewan, TSASK shall accept the use of the assigned inspector and/or the authorized inspection agency before fabrication begins.

4.10. Code of Construction

Indicate the applicable ASME pressure piping code used in the fabrication of the piping. If the design code is none of the three specified, choose others and specify what code of construction is being followed.

5. Part III – Piping System Information

This section of the form is set up in a Table format. This Table may be reproduced on a plain sheet and attached to the completed *TSK-1002* form if additional space is required. If additional pages are used, indicate the piping job number, the TSASK Pressure Piping Registration number and the date (as a minimum) so that all pages are linked to the completed form *TSK-1002*.

5.1. Information to be Provided

The table provided shall be filled in as appropriate and in compliance with the QMS/QCP being followed. TSASK shall reject data reports with insufficient or incorrect information.

- Column 1: Drawing number and line number
- Column 2: Design process fluid for the pressure piping system
- Column 3: Design pressure of the pressure piping system in kPa
- Column 4: Design minimum and maximum temperatures for the pressure piping system in degrees Celsius
- Column 5: Test pressure in kPa
Put “N/A” if the fabricator is not responsible for the pressure test. The responsible company shall be indicated in the “Remarks” section at the bottom of Part III. If the responsible company is not known, “pressure test to be done by others” shall be indicated in the “Remarks” section at the bottom of Part III.
- Column 6: Test medium (e.g. water, air etc.) Put “N/A” if the fabricator is not responsible for the pressure test. The responsible company shall be indicated in the “Remarks” section at the bottom of Part III. If the responsible company is not known, “pressure test to be done by others” shall be indicated in the “Remarks” section at the bottom of Part III. If this information is already there because of Column 5, these statements shall not be repeated.
- Column 7: Material specification and grade of the line.
- Column 8: Corrosion allowance in mm.

- Column 9: Nominal pipe size and the schedule of the pipe. If tubing, provide the outside diameter and the nominal wall thickness.
- Column 10: Flange material and rating (e.g. A182 Gr. F2 Cl 150)
- Column 11: Design PWHT and design preheat temperatures in degrees Celsius
- Column 12: Degree of radiographic examination
- Column 13: Other Non-destructive examinations
- Standard abbreviations such as VT, PT, MT and UT shall be used if not written out.

5.2. Additional Remarks

At the bottom of the columns, a “Remarks” section has been included.

As per Columns 5 & 6, if the pressure test for the pressure piping system is to be done by someone other than the fabrication company, that information shall be indicated in the remarks section but only once. If the responsible company is known, the company’s name shall be included here. If the responsible company is not known, “pressure test to be done by others” shall be included here.

Any other additional information that will not fit into the applicable spaces provided shall be included in the “Remarks”.

6. Part IV – Certificate of Compliance

This section of the data report shall be completed by the fabricator’s representative. The date the data report is completed shall be filled in. The fabricator’s name shall be provided in the second blank. Finally, the person authorized by the fabricator shall sign the form.

7. Part V – Certificate of Inspection

The owner’s inspector shall sign and date the Certificate of Inspection for all pressure piping systems. The owner’s inspector shall fill in their employer’s name which may be the:

- owner of the pressure piping system;
- primary contractor; or
- third party inspection organization who employs the inspector.

As per the QMS/QCP 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.

An additional requirement for ASME B31.1 Boiler External Piping is that the data report shall also be signed by the jurisdictional Authorized Inspector who performs the inspections during the fabrication of the piping. As per the QMS/QCP being followed, the fabricator shall notify the TSASK Inspector and inform them that ASME B31.1 boiler external piping is being fabricated before commencing fabrication.

8. Additional Information & Questions

8.1. Information/Questions regarding the Completion of the Data Reports

For questions regarding the completion of the data reports, please direct those inquiries to TSASK Codes & Standards Compliance. Please contact Codes & Standards Compliance:

- By email at CodesandStandards@tsask.ca;
- By phone at either (306) 787-4567 (Regina) or Toll Free (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.

Be sure to include the design submission reference number or pressure piping registration number if available

when corresponding by email or when calling TSASK.

8.2. QMS/QCP Inquiries including arranging for TSASK Inspectors

For additional information on QMS/QCPs or if the services of a TSASK Inspector may be required, please contact TSASK:

- By email at info@tsask.ca;
- By phone at either (306) 798-7111 (Regina) or Toll Free (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