



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Boiler External Piping Systems Installation and Test Data Report

Technical Standards and Safety Act
Boilers and Pressure Vessels Regulation

☐ Shop Fabrication (Send signed report with shipment to site) ☐ Field Installation / Fabrication ☐ Partial Data Report ☐ Final Data Report

Note: This Data Report shall be completed and signed by the person responsible, in whole or in part, for the fabrication, installation, testing, and inspection of the boiler external pressure piping system leaving a copy with the owner of the installation and forwarding the original signed Data Report to the TSSA Boiler and Pressure Vessel Safety Program.

Owner of Facility: (Name and Street Address)			
Location of Installation: (Street Address)	☐ Same as Owner		
Installer / Fabricator: (Name and Street Address)			
Design Responsibility:	☐ Owner ☐ Installer / Fabricator	Piping Registration Number:	

Design Code:	Design Pressure:	Design Temperature:	Fluid: (steam, water, etc.)
ASME B31.1	☐ psi ☐ kPa	☐ °F ☐ °C	

Line # and/or Dwg #:	Pipe Diameter: (NPS/DN)	Pipe Schedule, Type, or Thickness:	Pipe Material Specification and Grade:	Flange Material and Rating:	Corrosion Allowance: (in/cm)	Type of Connection: (Welded, Threaded, etc.)	NDE: (Yes or No; if yes, state % and type: RT, UT, MT, or PT)	PWHT: (Yes or No)

☐ Appendix 'A' Attached for extra lines

Welder(s) and Procedure(s) Used: (☐ N/A)					
Welder Name:	Stamp/ ID No.:	Employer:	Expiry Date: (mm/dd/yyyy)	Process:	Procedure Registration Number(s):

☐ Appendix 'B' Attached for extra lines (or Contractor's list of welders attached)

☐ Welding to be completed by others

Visual Weld Examination Completed: (☐ N/A)		
Print Name:	Signature:	Date:

Company Rep. Initial & Date	Inspector Initial & Date:



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Description of Pressure Test(s):				
Line # and/or Dwg #:	Medium & Temperature: (°F / °C)	Final Test Pressure: (psi/kPa)	Duration:	Remarks:

☐ Appendix 'C' Attached for extra lines ☐ Pressure test(s) by others

Partial Data Reports Attached: (☐ N/A)				
Line # and/or Dwg #:	Spool #:	Subcontractor Name:	C of A #:	C of A Expiry: (mm/dd/yyyy)

Remarks:

Endorse Certificate 'A' or 'B'			
A - CERTIFICATE OF COMPLIANCE <i>Partial Data Report</i>		B - CERTIFICATE OF COMPLIANCE <i>Final Data Report</i>	
We certify that the statements in the Data Report are correct, and that materials, construction, and workmanship of the piping fabrication under the registration number _____ conforms to the registered quality system and the ASME B31.1 piping code. <i>This certificate is not valid unless it forms part of a Final Data Report signed by the Primary Contractor</i>		We certify that the statements in this Data Report are correct, and that the piping registration number _____ described in this Data Report was constructed in accordance with the Provincial Act and Regulations, and the ASME B31.1 Piping Code.	
Certificate of Authorization Number:	Expiry Date:	Certificate of Authorization Number:	Expiry Date:
Name:	Signature:	Name:	Signature:
Title:	Date:	Title:	Date:

CERTIFICATE OF INSPECTION	
I, the undersigned, employed by _____ of _____ have verified that all required examination and testing has been completed, and inspected the piping described in this Data Report to the extent necessary to be satisfied that it conforms to all applicable examination requirements of the Code and of the engineering design, and state that, to the best of my knowledge and belief, the contractor has constructed this piping in accordance with the Provincial Act and Regulations. By signing this certificate, neither the inspector nor his or her employer makes any warranty, expressed or implied, concerning the piping described in this Data Report. Furthermore, neither the inspector nor his or her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
Inspector Name:	Inspector Signature:
Inspector Number:	Date:



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Appendix A – Additional Line Information

Owner of Facility: (Name and Street Address)			
Location of Installation: (Street Address)	☐ Same as Owner		
Installer / Fabricator: (Name and Street Address)			
Design Responsibility:	☐ Owner ☐ Installer / Fabricator	Piping Registration Number:	

Line # and/or Dwg #:	Pipe Diameter: (NPS/DN)	Pipe Schedule, Type, or Thickness:	Pipe Material Specification and Grade:	Flange Material and Rating:	Corrosion Allowance: (in/cm)	Type of Connection: (Welded, Threaded, etc.)	NDE: (Yes or No; if yes, state % and type: RT, UT, MT, or PT)	PWHT: (Yes or No)

Company Rep. Initial & Date	Inspector Initial & Date:

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Appendix B – Additional Welder Information

Owner of Facility: (Name and Street Address)			
Location of Installation: (Street Address)	☐ Same as Owner		
Installer / Fabricator: (Name and Street Address)			
Design Responsibility:	☐ Owner	☐ Installer / Fabricator	Piping Registration Number:

[illegible]

Company Rep. Initial & Date	Inspector Initial & Date:



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Appendix C – Additional Pressure Test Line Information

Owner of Facility: (Name and Street Address)			
Location of Installation: (Street Address)	☐ Same as Owner		
Installer / Fabricator: (Name and Street Address)			
Design Responsibility:	☐ Owner ☐ Installer / Fabricator	Piping Registration Number:	

Description of Pressure Test(s):				
Line # and/or Dwg #:	Medium & Temperature: (°F / °C)	Final Test Pressure: (psi/kPa)	Duration:	Remarks:

Company Rep. Initial & Date	Inspector Initial & Date:



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Guideline

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Note: This Data Report shall be completed and signed by the person responsible, in whole or in part, for the fabrication, installation, testing, and inspection of the boiler external pressure piping system leaving a copy with the owner of the installation and forwarding the original signed Data Report to the TSSA Boiler and Pressure Vessel Safety Program.

Owner of Facility: (Name and Street Address) **3**
Location of Installation: (Street Address) ☐ Same as Owner **5**
Installer / Fabricator: (Name and Street Address) **6**
Design Responsibility: ☐ Owner ☐ Installer / Fabricator Piping Registration Number: **8**

Design Code: ASME B31.1 Design Pressure: **9** ☐ psi ☐ kPa Design Temperature: **10** ☐ °F ☐ °C Fluid: (steam, water, etc.) **11**

Line # and/or Dwg #:	Pipe Diameter: (NPS/DN)	Pipe Schedule, Type, or Thickness:	Pipe Material Specification and Grade:	Flange Material and Rating:	Corrosion Allowance: (in/mm)	Type of Connection: (Welded, Threaded, etc.)	NDE: (Yes or No; if yes, state % and type: RT, UT, MT, or PT)	PWHT: (Yes or No)
12	13	14	15	16	17	18	19	20

21 ☐ Appendix 'A' Attached for extra lines

Welder(s) and Procedure(s) Used: (☐ N/A) **22**

Welder Name:	Stamp/ID No.:	Employer:	Expiry Date: (mm/dd/yyyy)	Process:	Procedure Registration Number(s):
23	24	25	26	27	28

29 ☐ Appendix 'B' Attached for extra lines (or Contractor's list of welders attached) **30** ☐ Welding to be completed by

Visual Weld Examination Completed: (☐ N/A) **31**

Print Name:	Signature:	Date:
32		

Company Rep. Initial & Date	Inspector Initial & Date
33	34

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Description of Pressure Test(s):

Line # and/or Dwg #:	Medium & Temperature: (°F / °C)	Final Test Pressure: (psi/kPa)	Duration:	Remarks:
36	37	38	39	40

41 ☐ Appendix 'C' Attached for extra lines ☐ Pressure test(s) by others

Partial Data Reports Attached: (☐ N/A) **43**

Line # and/or Dwg #:	Spool #:	Subcontractor Name:	C of A #:	C of A Expiry: (mm/dd/yyyy)
44	45	46	47	48

Remarks: **49**

Endorse Certificate 'A' or 'B'

A - CERTIFICATE OF COMPLIANCE Partial Data Report	B - CERTIFICATE OF COMPLIANCE Final Data Report
We certify that the statements in the Data Report are correct, and that materials, construction, and workmanship of the piping fabrication under the registration number 8 conforms to the registered quality system and the ASME B31.1 piping code. This certificate is not valid unless it forms part of a Final Data Report signed by the Primary Contractor.	We certify that the statements in this Data Report are correct, and that the piping registration number 8 described in this Data Report was constructed in accordance with the Provincial Act and Regulations, and the ASME B31.1 Piping Code.
Certificate of Authorization Number: 50 Expiry Date: 51	Certificate of Authorization Number: 50 Expiry Date: 51
Name: 52 Signature: _____	Name: 52 Signature: _____
Title: _____ Date: _____	Title: _____ Date: _____

CERTIFICATE OF INSPECTION

I, the undersigned, employed by **53** of **54** have verified that all required examination and testing has been completed, and inspected the piping described in this Data Report to the extent necessary to be satisfied that it conforms to all applicable examination requirements of the Code and of the engineering design, and state that, to the best of my knowledge and belief, the contractor has constructed this piping in accordance with the Provincial Act and Regulations. By signing this certificate, neither the inspector nor his or her employer makes any warranty, expressed or implied, concerning the piping described in this Data Report. Furthermore, neither the inspector nor his or her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector Name: 55	Inspector Signature: _____
Inspector Number: _____	Date: _____

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Guideline for completing the Boiler External Piping Systems Installation and Test Data Report

Item #	Description:	Example:
1	Check the applicable box if the piping system is fabricated in a shop or at a field site (for shop fabrication, a partial signed data report is required to be sent with the shipment to the installation site).	
2	Check the applicable box if this is a Partial Data Report or the Final Data Report. If the contractor is not responsible for all sections of the Data Report, select "Partial Data Report" and complete Section A of the Certificate of Compliance on Page 2. <i>This Data Report is not valid unless it forms part of a Final Data Report signed by the Primary Contractor.</i>	
3	Provide the name and full address of the facility owner.	
4	Select if the location of installation is the same address of the facility owner.	
5	Provide the location of the installation if not the same address as the facility owner.	
6	Provide the legal name and full address of the piping system installer/fabricator as listed on the applicable Certificate of Authorization.	
7	Check the applicable box for the organization responsible for the design.	
8	Provide the TSSA Piping Registration Number as identified on the registration documentation.	
9	Provide the Design Pressure as indicated on the registration documentation and identify the unit of measurement.	
10	Provide the Design Temperature as indicated on the registration documentation and identify the unit of measurement.	
11	Provide the internal fluid as indicated on the registration documentation.	
12	List the line number(s)/drawing number(s) as identified on the registered drawing, line list, or other means to identify the line(s).	Line 1, Steam Line, etc.
13	Include the pipe diameter for the specific line number and identify the unit of measurement (create a separate line for each diameter/thickness used).	2" OD, etc.
14	List the pipe schedule, thickness, or type for the specific line number.	Sch.40, 0.250", etc.
15	List the material specification of the piping used.	SA-106 Grade B, etc.
16	List the flange material and rating, as applicable.	SA-105N
17	Provide the corrosion allowance as indicated on the registration documentation, as applicable.	0.065", etc.
18	Identify the type of connection of the line.	Welded, threaded, etc.
19	List the Non-Destructive Examination completed for the line. Include the percentage of NDE completed and the type. If none, state "N/A".	RT-5%, PT-100%, etc.
20	Indicate if Post Weld Heat Treatment has been completed for this line.	
21	Check box if more lines are required and attach Appendix A.	
22	Check box if no welding is used.	
23	When lines are welded, state the name of the welder.	
24	State the welder's symbol or ID number. This number is found on the upper right-hand side of the Welder/Welding Operator Certificate (this symbol is determined at the time of the welder/brazer certification, provided by the employer.	JM, 01, etc.



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25	List the name of the welder's employer. This is to be the same name as the company identified in 6 or MCAO, as listed on the Welder/Welding Operator Certificate.	
26	List the expiration date of the Welder/Welding Operator Certificate. When the company maintains a Welder's Log as allowed by ASME, CSA, or the TSSA Code Adoption Document, state "ASME Sec. IX".	
27	List the process that is used by the welder.	GTAW, SMAW, etc.
28	Provide the Welding Procedure Registration Number identified on the Procedure Qualification Record.	WP-T1234.5, etc.
29	Check box if more lines are required and attach Appendix B.	
30	Check box if welding or brazing is completed by a sub-contractor. If selected, ensure the "Partial Data Report" in 2 is selected.	
31	Check box if the visual weld examination is not applicable.	
32	To be signed and dated by the individual responsible for the visual weld examination. This individual shall be appointed by the company as a visual weld examiner. Qualifications of the examiner shall be in accordance with the requirements of ASME B31.1.	
33	To be initialed and dated by the company representative.	
34	To be initialed and dated by the Authorized Inspector.	
35	Include the page count for all pages.	
36	List each line number and/or dwg number from 12 being pressure tested.	
37	List the test medium and temperature of the pressure test.	Nitrogen @ Amb Temp., Water @ 70°F, etc.
38	Record the final test pressure and identify the unit of measurement.	100 psi, 250 kPa, etc.
39	Record the duration of the pressure test.	10 minutes, 1 hour, etc.
40	Indicate the results of the pressure test.	Acceptable, No leaks, etc.
41	Check box if more lines are required and attach Appendix C.	
42	Check box if the pressure test is completed by others. If selected, ensure the "Partial Data Report" in 2 is selected.	
43	Check box if this is the Final Data Report and there are Partial Data Reports associated with this installation.	
44	List each line number and/or dwg number from 12 that the Partial Data Report is associated with.	
45	Indicate the spool number, as applicable.	
46	Record the Subcontractors name as stated on 6 of the Partial Data Report.	
47	Record the Subcontractors Certificate of Authorization Number applicable to Boiler External Piping.	QA-12345.
48	Record the Subcontractors Certificate of Authorization expiration date.	
49	Include any other remarks pertinent to the boiler external piping system or use when more room is required elsewhere in the data report.	
50	When completing either Certificate of Compliance 'A' or 'B', indicate the company's Certificate of Authorization number.	
51	When completing either Certificate of Compliance 'A' or 'B', indicate the company's Certificate of Authorization expiration date.	
52	Print the name and title of the company representative. To be signed and dated by the company representative.	
53	State the applicable Authorized Inspection Agency.	TSSA, ABSA, etc.
54	State the location of the Authorized Inspection Agency.	Ontario, Alberta, etc.
55	To be completed by the Authorized Inspector. Include the name, signature, date of acceptance, and Provincial, State, or National Board Commission Number, as applicable.	