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Boiler External Piping Systems Installation and Test Data Report

Technical Standards and Safety ActBoilers and Pressure Vessels Regulation

(If box che	abrication cked, send signe shipment to site	ed Fa	eld Insta abricatio	allation/ [on	☐ Partial Data R	eport [Final Data	Report	
testing and	inspection of	of the boiler	external	pressure pip	responsible, in who ing system leaving a Vessel Safety Progra	copy with t			
Owner of Fac	cility	Name and	Street Add	dress:					
Location of Fa	acility	Street Add	ress:						
Piping System Fabric	ator/Installer	Name and	Street Add	dress:					
Design Respor	sibility	Ow	ner of Fac	cility	Piping System Fabricat	or/Installer			
	Design Code: .1 Boiler Exter	nal Piping		Cana	adian Registration Numb	er:	Desig	n Pressure:	
	ign Temperatı □ ºC Max		□ °C	Welding Procedure(s) Registration #: Fluid (steam, water, etc.)			tc.):		
Line # and/or Dwg #	Pipe Diameter (NPS/DN)	Pipe Schedule or Thickness	Spe (including	ng Material ecification grade & type as plicable)	Flange Material and Rating	Corrosion Allowance (in/cm)	Type of Connection (Welded, Threaded, etc.)	NDE (If yes, include type)	PWHT/ Preheat (Yes or No)
				Welde	rs Used:	∐ A	ppendix A Attac	hed (for ex	tra lines)
Name of Welder:			Symbo				Expiry Da (mm/dd/yyy		Process:
(Alternatively, the Contr	actor's list of w	elders may be	attached) Appen	ndix B Attached (for ex	ktra lines)	Welding to be	completed	by others

Company Rep. Initial & Date: _____ A.I. Initial & Date: _

Partial Data Reports Attached:

No.	Line # and/or Drawing #	Spool #		Subcontractor Name		Quality Program #	Expiration Date (mm/dd/yyyy)		
				Pressure Test(s):		Appendix C Attach	ed (for extra lines)		
	Line # or Description	Mediur	n & Temperature (°F/°C)	Final Test Pressure (psi/kPa)	Dur	ation	Remarks		
						Pressu	re test(s) by others		
REMA	ARKS:								
N	lote: This Certif	icate is not v	alid unless it form	s part of a Final Data Repo	rt signe	d by the Primary	Contractor.		
			CERTIFIC	ATE OF COMPLIANCE					
			ata Report are correct and the ASME B31	ct, and that materials, construction.1 piping code.	on, and w	orkmanship of the լ	piping fabrication		
	Cert	ificate of Auth	orization#	Expiry Date	e:				
Print	Name:			Signature:	Signature:				
Title:	Fitle:			Date:					
			CERTIFIC	CATE OF INSPECTION					
to all the co inspe Furth	applicable examina ontractor has cons ctor nor his or he ermore, neither the	ation requireme structed this piper er employer m e inspector nor	ents of the Code and o ping in accordance w akes any warranty,	of ibed in this Data Report to the exit of the engineering design, and stati ith the Provincial Act and Regul expressed or implied, concerning nall be liable in any manner for an	ite that, to lations. E ng the pi	othe best of my kno By signing this cert ping described in	wledge and belief, ificate, neither the this Data Report.		
Date	(mm/dd/yyyy):	Inspector Na	me (Print):	Inspector Signature:		Number:			



Boiler External Piping Systems Installation and Test Data Report

Appendix A – Additional Line Information Technical Standards and Safety Act

					Во	ilers and Pressu	re Vessels	Regulation	
Owner of Facil	ity	Name and St	treet Address:						
Location of Facility		Street Address:							
Piping System Fabricat	tor/Installer	Name and Street Address:							
Ca	anadian Regist	tration Number	:		Fluid (air	, steam, etc.):			
Line # and/or Dwg #	Pipe Diameter (NPS/DN)	Pipe Schedule or Thickness	Piping Material Specification (including grade & type as applicable)	Flange Material and Rating	Corrosion Allowance (in/cm)	Type of Connection (Welded, Threaded, etc.)	NDE (If yes, include type)	PWHT/ Preheat (Yes or No)	



Boiler External Piping Systems Installation and Test Data Report

Appendix B – Additional Welder Information Technical Standards and Safety Act

Boilers and Pressure Vessels Regulation

Owner of Facility	Name and S	treet Addres	SS:					
Location of Facility	Street Addre	ss:						
Piping System Fabricator/Installer	Name and S	treet Addre	SS:					
Canadian Regis	tration Number	r:			Fluid (a	ir, steam, etc.):	
				_				
Name of Welder:		Symbol:		Emplo	oyer:		Expiry Date: (mm/dd/yyyy)	Process:



Boiler External Piping Systems Installation and Test Data Report

Appendix C – Additional Partial Data Report Information Technical Standards and Safety Act

Boilers and Pressure Vessels Regulation

Owner of Facility	Name and Street Address:	
Location of Facility	Street Address:	
Piping System Fabricator/Installer	Name and Street Address:	
Canadian Regis	tration Number:	Fluid (air, steam, etc.):

No.	Line # and/or Drawing #	Spool #	Subcontractor Name	Quality Program #	Expiration Date (mm/dd/yyyy)



Boiler External Piping Systems Installation and Test Data Report Guideline

Technical Standards and Safety ActBoilers and Pressure Vessels Regulation

Technical Standards and Safety Authority 345 Carlinquier Drive Toronto, Ontario MeW OND www.tissa.org				Boiler Exter	Tec		est Data ards and S	Repor
(If box check	ibrication ced, send signed hipment to site)		ld Installation/ prication	Partial Data R	1b) eport	Final Data	Report	
	nspection of	the boiler e	xternal pressure pip	n responsible, in who ping system leaving Vessel Safety Progr	copy with			
Owner of Faci	lity	Name and S	treet Address:					
Location of Fac	ility	(3)						
Piping System Fabrical	tor/Installer	Name and S	treet Address:					
Design Respons	ibility	Own	er of Facility	Piping System Fabrica	tor/Installer	5		
Design ASME B31.1 Boil	n Code: ler External Pip	ping	Canadian Re	gistration Number:		Design F	ressure:	kPa
Design Te	mperature:	* □ °C		ure(s) Registration #:		Fluid (steam	water, etc.):	
Line # and/or Dwg #	Pipe Diameter (NPS/DN)	Pipe Schedule or Thickness	Piping Material Specification (including grade & type as applicable)	Flange Material and Rating	Corrosion Allowance (In/cm)	Type of Connection (Welded, Threaded, etc.)	NDE (If yes, include type)	PWHT/ Preheat (Yes or No)
12)	13)	14)	15)	16)	17)	18)	19	20
	**** (C		Wolde	ers Used:	21 🗆 A	ppendix A Atta	ched (for ex	dra lines)
Name	of Welder:		Symbol:	Employer:		Expiry Da		rocess:
(2	22)		(23)	(24)		(25)) (26)
Alternatively, the Contractor's list	of welders may be	atached)	(27)	ndix B Attached (for e	ktra lines)	Welding to be	completed	i by others
PV 00000 (12/23/20) page 1	of 2	(28	Company Rep. Initia	I & Date:	A	I. Initial & Date: _		

	Line # and/or Drawing # Spool # (31)		Subcontractor Name	Quality Program #	Expiration Dat
N 2 N			(32)	(33)	(34)
			Pressure Test(s):	Appendix C Attach	ed (for extra line
				-	- Common State Finder, and a common state of the common state of t
Line # or Descr	iption:	Medium & Temperature (*F/*C)	Final Test Presquire (ps//kPa)	Duration	Remarks
	35 35	(37)	(30)	(39)	(40)
	58		52 53	(10)	
	Certificate i	s not valid unless it forn	ns part of a Final Data Repor		
Note: This C	statements	CERTIFIC	CATE OF COMPLIANCE	t signed by the Primary	Contractor.
Note: This C	statements istered quali	CERTIFIC	CATE OF COMPLIANCE	t signed by the Primary	Contractor.
We certify that the	statements istered quali	CERTIFIC in this Data Report are corre ty system and the ASME B31	CATE OF COMPLIANCE ot, and that materials, construction of pining code.	t signed by the Primary	60/7075#960#1945555
Note: This C	statements istered quali Certificate	CERTIFIC in this Data Report are corre ty system and the ASME B31	cate of compliance ot, and that materials, construction 1.1 piping code. Expiry Date:	t signed by the Primary	/ Contractor.
Note: This C	statements istered quali Certificate	CERTIFIC in this Data Report are corre by system and the ASME B31 of Authorization #	c.t. and that materials, construction. 1 pining code. 43 Expiry Date: Signature: Date:	t signed by the Primary	/ Contractor.
Note: This C We certify that the reg Print Name: Title:	statements istered qualificate (45)	CERTIFIC in this Data Report are corre by system and the ASME B31 of Authorization # CERTIFIC V	ct. and that materials, construction. 1 pining code. 43 Expiry Date: Signature: Date: CATE OF INSPECTION of	t signed by the Primary	r Contractor.
Note: This C We certify that the conform to the reg Print Name: Title: the undersigned, and testing has be only applicable we need to all applicable with a spector on or his urthermore, neith	employed ben complete amination re- constructed or her employed ben complete or her employed ben complete employed ben complete employed ben complete employed ben constructed or her employed ben ben specification.	CERTIFIC in this Data Report are corre by system and the ASME B31 of Authorization # CERTIFIE CERTIFIE A i, and inspected the piping de quirements of the Code and this piping in accordance will be compared to the code and this piping in accordance will be compared to the code and	c.t. and that materials, construction. 1 pining code. 43 Expiry Date: Signature: Date:	have verified that all recotent necessary to be satisfied that produced in the standard produced in the satisfied that all recotent necessary to be satisfied that the best of my know that the satisfied in the pipping described in the pipping described in the pipping described in the pipping satisfied in the pipping satisfied in the pipping described in the pipping satisfied in the pipping sati	piping fabrication



Boiler External Piping Systems Installation and Test Data Report

Guideline

Technical Standards and Safety ActBoilers and Pressure Vessels Regulation

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

ASME B31.1 states that Boiler External Piping shall be considered as piping that begins where the boiler proper terminates at (1) the first circumferential joint for welding end connections, or (2) the face of the first flange in bolted flanged connections, or (3) the first threaded joint in that type of connection, and that extends up to and including the valve or valves required by ASME B31.1 paragraph 122.1.

Limits of Boiler External Piping systems can be found in Section I, Figures PG-58.2-1 through PG-58.2-6.

Item		
#	Description	Example
1a	Check if the piping system is fabricated in the shop or field.	
1b	Check if this is a Partial Data Report or a Final Data Report.	A signed partial data report is required for all shop fabricated piping and shall be shipped with and included with the final data report of the piping system at the installation site.
2	Provide the name and address of the facility owner.	
3	Provide the facility address if different from Item 2.	
4	Provide the name and address of the piping system fabricator/ installer as listed on the Certificate of Authorization.	
5	Select whether the design responsibility is by the owner of the facility or the piping system fabricator/installer.	
6	Canadian Registration Number provided by TSSA, identified in the registered documentation.	
7	Provide the Design Pressure as identified in the registered documentation. Identify the unit of measurement.	
8	Provide the Minimum Design Temperature as identified in the registered documentation. Identify the unit of measurement.	
9	Provide the Maximum Design Temperature as identified in the registered documentation. Identify the unit of measurement.	
10	Provide the Welding Procedure Registration Number identified on the registered Procedure Qualification Record.	WP-T1234.5
11	Identify the fluid type contained in the piping.	Steam, Air, etc.
12	Line number as identified on the registered drawing, line list, drawing number, or other means to identify line(s) being tested.	
13	Pipe diameter for the specific line number (create a new line for each diameter used). Identify the unit of measurement.	2" OD; 1-3/8" OD, 60.3mm OD, etc.
14	Pipe schedule/thickness for the specific line number.	Sch. 40,
15	Material specification of the piping used.	SA-106 Grade B
16	Material specification and rating of the flange material (if used).	SA-105N; 150#
17	Corrosion allowance of the piping.	0"
18	Type of connection for joining the pipe.	Welded, threaded, etc.
19	Non-Destructive Examination completed on the line number. Include the percentage of NDE completed. If none, state "N/A".	RT – 5%, PT – 100%, Visual, etc.
20	Post Weld Heat Treatment completed on the line number.	Yes or No
21	Select box if more lines are required and attach Appendix A.	
22	When connections are welded, list the name of the welder.	
23	Include the welder symbol to identify connections made by the individual. This is found on the upper right hand side of the Welder/Welding Operator Certificate.	This symbol is determined at the time of the welder certification, typically listed by the employer.
24	Employer of the welder.	



Boiler External Piping Systems Installation and Test Data Report Guideline

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Boilers and Pressure Vessels Regulation

25	Expiry Date of the Welder/Welding Operator Certificate.	If maintaining a Welder Log as allowed by ASME, CSA or the TSSA Code Adoption Document, state "Per ASME Section IX".
26	List the process used.	GTAW, SMAW, etc.
27	Select box if more lines are required and attach Appendix B. Select box if welding is to be completed by others.	When completed by others, "Partial Data Report" should be selected in Item 1b.
28	To be initialed and dated by the company representative and the Al.	
29	Include a Partial Data Report number.	1, 2, etc.
30	List the line item number from Item 12 that the Partial Data Report is associated with.	
31	List the spool number that the Partial Data Report is associated with (if applicable).	
32	List the subcontractors name that the Partial Data Report is associated with.	
33	List the quality program number from the subcontractor that the Partial Data Report is associated with.	QA 00000.
34	List the quality program expiration date from the subcontractor that the Partial Data Report is associated with.	
35	Select box if more lines are required and attach Appendix C.	
36	List all line numbers from Item 10 that are being pressure tested.	This may state "All lines", or specific to what lines are being tested. If more room is needed, Item 42 may be used to record other lines or information.
37	Include the test medium and temperature of the pressure test.	Nitrogen at Ambient Temperature, Water at 70°F, etc.
38	Record the final test pressure. Identify the unit of measurement.	
39	Record the total time the test was held for.	
40	Remarks are to include acceptability of the test.	Acceptable, No leaks, etc.
41	Select box if the final pressure test is to be completed by others.	When completed by others, "Partial Data Report" should be selected in Item 1b.
42	Include any remarks pertinent to the piping system.	This space may be used as additional space for Items such as 12-20, 36-40, etc.
43	Number issued on the Certificate of Authorization for Boiler External Piping.	QA 00000.
44	Expiration date listed on the Certificate of Authorization.	
45	Print the name and title of the Manufacturer's Representative. To be signed and dated by the individual responsible.	
46	Authorized Inspection Agency	TSSA, ABSA, etc.
47	Location of the Authorized Inspection Agency	Ontario, Alberta, etc.
48	To be completed by the Authorized Inspector. Include the date of acceptance, name of the Authorized Inspector, signature of the Authorized Inspector, and Provincial, State, or National Board Commission Number.	