Annex B - British Columbia:

Compliance Declaration for Design Registration Applicants must fulfill their

responsibilities to ensure that the design complies with applicable codes and standards.

Applicants responsibilities:

- 1) To ensure that the design complies with the relevant codes and standards.
- 2) To present a complete application package.
- 3) To assume responsibility for the integrity of their design(s).

To meet these responsibilities, the applicant must possess the necessary qualifications or retain the services of a qualified person to perform the work. A qualified person is one who has the knowledge and experience to assess the design from a perspective of code, standard and safe industry practice compliance.

For the purposes of most boiler, pressure vessel and fitting designs, a qualified person is generally a registered professional engineer. In limited circumstances, Technical Safety BC may consider other types of qualifications. An example may be where:

- the ASME code covers all details of design and construction, and
- the person and company are known to Technical Safety BC as having experience designing and manufacturing the type of vessel,
- an accredited ASME manufacturer's representative may be considered a qualified person.

Legislation will be established in British Columbia that reflects the role of Professional Reliance. It is the expectation of the applicant to ensure the submitted package is prepared and authenticated by a professional engineer as part the package submission.

Weblink - please use to verify latest information

https://www.technicalsafetybc.ca/alerts/information-bulletin-design-registration-changes-technicalsafety-bc-application-process

Please complete the highlighed sections of the BC application form and compliance declaration.

Please also complete the BC suppliment form for the applicable design type:

- Boiler CRN Supplement Reciprocal
- Fitting CRN Supplement Reciprocal
- Heat Exchanger CRN Supplement Reciprocal Pressure
- Vessel CRN Supplement Reciprocal



Design Registration Application Form (CRN/PRN/BCLD)

Note: The information on this form is collected to administer the provisions of the BC Safety Standards Act and section 26 of the Freedom of Information and Protection of Privacy Act. If you have questions about the collection, use, or disclosure of this information, contact the Records, Information & Privacy Analyst at 1 866 566 7233.

If information about this design was submitted subsequent to this application, please provide Journal Number:_

•	to this form, verification of registration		emental CRN:
Section A – Billing Client: Company:		Date of Applic Contact Name:	cation:
Address:		City/Town:	
Province/State:	Postal/Zip code:	Email:	
Phone:			
Section B – Submitted By:	Same as Section A	See be	low
Company:		Contact Name:	
Address: Province/State:	Postal/Zip code:	City/Town: Email:	
Phone:	Postal/Zip code.		
Section C – Register To:	Same as Section A	See be	low
Company:		Contact Name:	
Address:		City/Town:	
Province/State:	Postal/Zip code:	Email:	
Phone:			
Section D – Additional Information	<mark>n</mark>		
Drawing Number:		Revision Nu	mber:
Drawing Title:			
Applicant's billing reference (job #,	file # etc.)		
Section E – Site / Installation Info Address:	rmation required (for piping an	d used vessel submissions o	nly)
Site/Building Name:			
Registration Type: (please check (
New CRN CRN Revision/Update	 New Reciprocal Reciprocal Revision/Update 	Repair/Alteration Used Vessel	Control System
Design Category: (please check or	ne and indicate corresponding volu	ume or heat transfer/surface are	ea)
 Pressure Vessel (Volume) Boiler (Heating Surface) 	m3 	Heat Exchanger (Heat Tra Fitting Piping System)	
	•		I Statutory Declaration per CSA B51, and
NOTE: CRN Application must i	nclude the following:		
	, please complete a separate applicati	on and collate documents by design	n.
2. Only 1 set of <u>drawings</u> , cal	culations & application form is required	d for each design submittal (piping i	s included and only requires 1
•	ns and an application form. Please pro on requirements please visit <u>https://ww</u>		
systems/design-registration	n-boilers		
, , ,	registration packages will be accepted		
5. For reciprocal registratio	ns please ensure that the suppleme	entary form is also completed and a	accompanies this application.



🗌 No

Section E – Design Definition (continued from page 1)

Calculations Document #:_____ Date:_____ Revision:_____ Date:_____ Note: vessels with an overall length greater than 20ft require seismic calculations to be included in the calculations

(For reciprocal registration) CRN #: _____ Date of Initial Registration:_____

Other documents and revisions that define the design or are necessary to demonstrate compliance. Refer to Technical Safety BC registration circulars for guidance relating to the types of documentation expected for compliance demonstration.

Document #:	Revision:	Date:	
Document #:	Revision:	Date:	
Code or Standard of Design (check applicable) ASME Section I ASME Section IV ASME Section VIII, division 1 * (see below) ASME Section VIII, division 2 ASME Section VIII, division 3	 ASME B31.1 ASME B31.3 ASME B31.5 CSA B51 CSA B52 		
ASME PVHO-1	Other (specify)		

*If ASME Section VIII, Division 1: Does the design leverage rule U-1(d) or U-2(g) for compliance?

Compliance Declaration

(To be completed by a registered professional engineer <u>or</u> identify the qualifications of the declarer that establish their suitability for making the following declaration) <u>See IB-BP-2014-02</u>

I declare that the above:

1. Information is complete and correct, and

2. Submitted design complies with the stated code or standard of design and, to the best of my knowledge, is safe for construction and use.

Association Name	Regist	ration No	—
Name	Signature	Date	
Qualified Person:			P.Eng. Stamp
Name Qualifications of person i		Date	



Boiler CRN Supplement - Reciprocal

Note: The information on this form is collected to administer the provisions of the BC Safety Standards Act and section 26 of the Freedom of Information and Protection of Privacy Act. If you have questions about the collection, use, or disclosure of this information, contact the Records, Information & Privacy Analyst at 1-866-566-7233.

This supplement form is to be completed and signed for a Boiler reciprocal registration.

Drawing #:	Revision:	Title:	
CRN #:	Date of Initial F	Registration	
Boiler Class (check one) High Pressure Boiler Hot Water Boiler	Low Pressure Boiler Thermal Fluid		
Boiler Type (check one) Cast Aluminum Core Boiler Cast Iron Sectional Coil Tube Condensing Boiler Electric Fired Heater	Horiz. Return Tube F. Box Horizontal Return Tube Locomotive Miniature Boiler Port. Boiler (Trac. Boiler) Pulse Boiler	 Recovery Boiler Scotch Dryback Scotch Wetback Thermal Liquid Traction Boiler Unfired Steam Gen 	 Vertical Firetube Vertical Tubeless Vertical Watertube Watertube
Design Conditions and Configuration	(complete and check applic	able units)	
Primary material of construction: Cast Iror Overall Vessel Length	g C deg F Steel feet bs/hr m2 bs/hr	☐ meters ☐ Mbtu/hr ☐ kg/hr ☐ Mbtu/hr ☐ kg/hr	kW kW kw kw kw kw kw
Code of Standard of Design (check on	e)		
 ASME Section I ASME Section IV ASME Section VIII, Division 1 ASME Section VIII, Division 2 ASME Section VIII, Division 3 ASME PVHO-1 		ASME B31.1 ASME B31.3 ASME B31.5 CSA B51 CSA B52 Other (specify)	

Boiler Reciprocal Compliance Declaration

I declare that the submitted design in this application conforms to the design that has been previously registered by another Province and that documentation of previous registration is provided.

Name _____

Date



Fitting CRN Supplement - Reciprocal

Note: The information on this form is collected to administer the provisions of the BC Safety Standards Act and section 26 of the Freedom of Information and Protection of Privacy Act. If you have questions about the collection, use, or disclosure of this information, contact the Records, Information & Privacy Analyst at 1-866-566-7233.

This supplement form is to be completed and signed for all applications for a reciprocal registration.

Drav	ving #:			Revi	sion:		Title:	
CRN	N #: Date of Initial Registration			tration				
Fittin	g Category (check one)							
	A – Pipe Fittings						E – Strainers / Filters / Separators / Steam Traps	
	B - Flanges						F – Measuring Devices	
	C - Valves						G – Pressure Relief Devices	
	D – Expansion Joints / Flexible Conn	ectior	ns/ Hose /	Assen	nblies		H - Other	
Note:	Certain A, B, C, and G category	fittiı	ngs are	exen	npt from	regist	tration – see <u>Directive D-B6 070402 3</u>	
Desig	n Conditions and Configuration	(cor	nplete a	nd ch	ieck app	licable	units)	
MAW	/P:		kPa		psig		bar	
MAW	/Т:		deg C		deg F			
MDN	IT:		deg C		deg F			
Exte	rnal Pressure		kPa		psig		bar	
Sing	le Fitting		Yes		No			
Expi	ry Date							
Code	of Standard of Design (check or	ne)						
	ASME Section I					ASME	E B31.1	
	ASME Section IV					ASME	E B31.3	
	ASME Section VIII, Division 1					ASME	E B31.5	
	ASME Section VIII, Division 2					CSA E	B51	
	ASME Section VIII, Division 3					CSA E	B52	
	ASME PVHO-1					Other	(specify)	

Fitting Reciprocal Compliance Declaration

I declare that the submitted design in this application conforms to the design that has been previously registered by another Province and that documentation of previous registration is provided.

Nam	е
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Signature____

_____ Date____



Heat Exchanger CRN Supplement - Reciprocal

Note: Any personal information collected is handled in accordance with the British Columbia *Freedom and Protection of Privacy Act.* If you have questions about the collection, use, or disclosure of this information, contact the Records, Information and Privacy Analyst for Technical Safety BC at 1-866-566-7233

This supplement form is to be	be completed and signed f	for a heat exchanger reciprocal registration.
Drawing #:	Revision:	Title:
CRN #:	Date of	Initial Registration:
HEAT EXCHANGER TYPE	(Check One)	
IT IntercoolerCT Coil Tube	AF Aftercooler TE Shell & Tube	
CODE OR STANDARD OF	DESIGN (Check One)	
ASME Section I ASME Section IV ASME Section VIII, di ASME Section VIII, di ASME Section VIII, di ASME PVHO-1	ivision 2	 ASME B31.1 ASME B31.3 ASME B31.5 CSA B51 CSA B52 Other (specify)
DESIGN AND SECTION DI	ETAILS (Complete and C	heck Applicable Units)
Heat Exchange Area: Overall Vessel Length Note: vessels with an overa submitted (see boiler and p	ft Il length greater than 20ft	(6.1 meters) must have detailed seismic and loading calculations
Section Name: MAWP MAWT MDMT	kPa □ deg C	Tube, Path) bar deg F deg F deg F

Heat Exchanger Reciprocal Compliance Declaration

I declare that the submitted design in this application conforms to the design that has been previously registered by another Province and that documentation of previous registration is provided.

(eg. Shell, Tube, Path)

meters

meters

meters

bar

deg F

deg F

meters

meters

meters

Name _

Diameter

Section Name:

Length

Width

MAWP

MAWT

MDMT

Length

Width

Diameter

mm

mm

mm

kPa

deg C

deg C

mm

mm

mm

inches

inches

inches

psig

inches

inches

inches

feet

feet

feet

feet

feet

feet



Pressure Vessel CRN Supplement - Reciprocal

Note: Any personal information collected is handled in accordance with the British Columbia *Freedom and Protection of Privacy Act.* If you have questions about the collection, use, or disclosure of this information, contact the Records, Information and Privacy Analyst for Technical Safety BC at 1-866-566-7233

This supplement form is to be completed and signed for a pressure vessel reciprocal registration.

Drawing #:	Revision: Ti	ïtle:
CRN #:	Date of Initial Registration	on:

Pressure Vessel Class (Check One)

Part

Unfired Vessel

Pressure Vessel Type (Check One)

Absorber		Cryogenic Transported		Hyperbaric		Refrigerant Liquid Receiver
Accumulator		Cushion Exp. Tank		Interstage Scrubber		Retort
Absorber		Deaerator		Line Heater		Scrubber
Air Receiver Mounted with Machine		Dehydrator		Liquid Petroleum Stationary		Separator
Air Receiver Part of System		Digester		Liquid Petroleum Transported		Spherical Vessel
Ámmonia Stationary		Discharge Bottle	\square	Liquid Receiver	\square	Steam Kettle
Ammonia Transported		Domestic Hot Water Storage		Nitrogen Stationary		Steam Processor
Autoclave	\square	Drum	\square	Nitrogen Transported	\square	Steam Vessel
Blow Down Tank	\Box	Dryer		Oxygen Stationary		Sterilizer
Carbon Dioxide		Dryer Roll		Oxygen Transported		Suction Bottle
Stationary						
Carbon Dioxide Transported		Filter		Pressure Vessel Non- Specific		Sulphur Dioxide Stationary
Chemical Storage Tank		Generator		Propane Container		Sulphur Dioxide Transported
Chlorine Stationary		High Pressure Cylinder		Propane Stationary		Tank
Chlorine Transported		Hydraulic Tank		Propane Transported		Tower (Column, etc.)
Converter		Hydrogen Storage		Reactor		Tube Boilers with Cast
		Tank				Headers
Cryogenic Stationary		Hydro-pneumatic Tank		Receiver		

Design Conditions and Configuration (Complete and check applicable units)

MAWP: MAWT: MDMT: External Pressure Shape	kPa deg C deg C kPa Cylinder	bar deg F deg F bar Square/		psig psig Irregular	
Diameter Overall Length Width Max Volume Corrosion Allowance	mm mm meter ³ inches	Rectangle meters meters meters mm		inches inches inches	feet feet feet
Shell Material:					
Shell Thickness:				inches	mm
Impact test required?				yes	no
Head Material					
Head Thickness			_	inches	mm
Impact test required?				yes	no
Underground (buried) Vessel?				yes	no

Note: vessels with an overall length greater than 20ft must have detailed seismic and loading calculations submitted (see boiler and pressure vessel registration guide).

Type of Service (Check	(Applicable)		
Lethal	Non-Lethal	□ Non-	corrosive
Code or Standard of D	esign (Check One)		
 ASME Section I ASME Section IV ASME Section VIII, ASME Section VIII, ASME Section VIII, ASME PVHO-1 	Division 2		ASME B31.1 ASME B31.3 ASME B31.5 CSA B51 CSA B52 Other (specify)

Pressure Vessel Reciprocal Compliance Declaration

I declare that the submitted design in this application conforms to the design that has been previously registered by another Province and that documentation of previous registration is provided.

Name	Signature	Date
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