



the pressure equipment safety authority

Design Registration Application Supplemental Sheet

Mail Form to: ABSA
9410 – 20th Avenue
Edmonton, AB
Canada T6N 0A4

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Minimum Required Information for Pressure Piping System Submissions

Please select the appropriate check box.

		Yes Provided	No N/A
A	AB-31 Design Registration Application Form		
A.1	Complete form AB-31 (Page1)	<input type="checkbox"/>	<input type="checkbox"/>
B	AB-96 Form		
B.1	Check for completeness including P.Eng Stamp	<input type="checkbox"/>	<input type="checkbox"/>
B.2	Is the Ultimate Owner name and physical mailing address correct?	<input type="checkbox"/>	<input type="checkbox"/>
B.3	Is the type of plant and location for the pressure piping system correct?	<input type="checkbox"/>	<input type="checkbox"/>
B.4	Is the scheduled or tentative start and completion correct?	<input type="checkbox"/>	<input type="checkbox"/>
B.5	Is the applicable code of construction and edition correct?	<input type="checkbox"/>	<input type="checkbox"/>
B.6	Are the flanges, piping, valves, fittings, & etc... suitable for the application and are consistent with the Line Class?	<input type="checkbox"/>	<input type="checkbox"/>
B.7	Is the overpressure protection documented and submitted?	<input type="checkbox"/>	<input type="checkbox"/>
C	Piping and Instrumentation Diagram		
C.1	Do the applicable P&IDs have a P.Eng. Stamp?	<input type="checkbox"/>	<input type="checkbox"/>
C.2	Are safeguards in place for over pressure protection?	<input type="checkbox"/>	<input type="checkbox"/>
C.3	Are line numbers, classes and code breaks identified?	<input type="checkbox"/>	<input type="checkbox"/>
C.4	Are pressure relief devices identified on the drawings?	<input type="checkbox"/>	<input type="checkbox"/>
D	Piping Line Designation Table		
D.1	Do the applicable Line Designation Tables have a P.Eng. Stamp?	<input type="checkbox"/>	<input type="checkbox"/>
D.2	Are design conditions listed?	<input type="checkbox"/>	<input type="checkbox"/>
D.3	Are the listed Minimum Design Metal Temperatures (MDMTs) correct and within the scope of the material line class?	<input type="checkbox"/>	<input type="checkbox"/>
D.4	Are material impact test requirements listed?	<input type="checkbox"/>	<input type="checkbox"/>
D.5	Are the Post Weld Heat Treat (PWHT) requirements listed?	<input type="checkbox"/>	<input type="checkbox"/>
D.6	Are the line classes suitable for the application?	<input type="checkbox"/>	<input type="checkbox"/>
D.7	Are the test pressures listed?	<input type="checkbox"/>	<input type="checkbox"/>
D.8	Are the amount and type of Non-Destructive Examination clearly identified?	<input type="checkbox"/>	<input type="checkbox"/>
E	Pressure Relief		
E.1	Does the applicable Pressure Relief Device (PRD), Rupture Disc Device (RDD), or Pin Device (PD) list have a P.Eng. Stamp?	<input type="checkbox"/>	<input type="checkbox"/>
E.2	Does the overpressure protection philosophy make use of PRDs?	<input type="checkbox"/>	<input type="checkbox"/>
E.3	Does the overpressure protection philosophy make use of RDD or PD, §6.1 of the AB-525?	<input type="checkbox"/>	<input type="checkbox"/>
E.4	Have the PRV set pressures been checked against the equipment design pressures?	<input type="checkbox"/>	<input type="checkbox"/>
E.5	Does the overpressure protection philosophy make use of Overpressure Protection by System Design (OPPSD)? If NO, then proceed to Section F.	<input type="checkbox"/>	<input type="checkbox"/>
E.5a	○ Does the overpressure protection comply with §6.0.3 of the AB-525	<input type="checkbox"/>	<input type="checkbox"/>
E.5b	○ Does the overpressure protection comply with listed cases in §6.2 of the AB-525?	<input type="checkbox"/>	<input type="checkbox"/>
E.5c	○ Does the overpressure protection comply with unlisted cases in §6.3 of the AB-525?	<input type="checkbox"/>	<input type="checkbox"/>



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E.5d	o Is the proposed overpressure protection unrelated to the AB-525?	<input type="checkbox"/>	<input type="checkbox"/>
E.5e	o Are the details of the monitoring system submitted?	<input type="checkbox"/>	<input type="checkbox"/>
F	Piping Material Class		
F.1	Is the material class suitable for the piping code of construction?	<input type="checkbox"/>	<input type="checkbox"/>
F.2	Does the material class list all materials used for this piping system?	<input type="checkbox"/>	<input type="checkbox"/>
F.3	Does the material class include limitations for temperature and pressure?	<input type="checkbox"/>	<input type="checkbox"/>
G	Pressure Testing		
G.1	Are the pressure tests performed hydrostatically?	<input type="checkbox"/>	<input type="checkbox"/>
G.2	Are the pressure tests performed pneumatically?	<input type="checkbox"/>	<input type="checkbox"/>
G.2a	o If pneumatic testing is specified, are the test procedures submitted?	<input type="checkbox"/>	<input type="checkbox"/>
G.2b	o Do the pneumatic test procedures specify the pressure, temperature, duration, and safety precautions?	<input type="checkbox"/>	<input type="checkbox"/>
H	Closure Weld Require Registration		
H.1	Are the reasons submitted why pressure tests are impracticable?	<input type="checkbox"/>	<input type="checkbox"/>
H.2	Are all closure welds identified?	<input type="checkbox"/>	<input type="checkbox"/>
H.3	Has the closure weld procedure according to AB-519 been previously submitted?	<input type="checkbox"/>	<input type="checkbox"/>
H.4	Has a Site Specific Closure Weld Procedure been submitted?	<input type="checkbox"/>	<input type="checkbox"/>
I	Others		
I.1	Are there any other items not considered above that require the Safety Code Officer attention?	<input type="checkbox"/>	<input type="checkbox"/>

Main Drawing No(s). _____

By signing below, the submitter or piping system owner agrees that it is his/her responsibility to ensure that the above required information is provided in the submission.

Failure to provide the minimum required information specified above may result in delay of review or refusing registration of the design.

Checked By: Signature Date

Terminology and Acronyms

- OPPSD – Overpressure Protection by System Design means protection of pressure equipment from overpressure by means other than by use of a pressure relief valve, rupture disc, or pin device. Refer to AB-525 Overpressure Protection Requirements for Pressure Vessels and Pressure Piping for details.
- Overpressure Risk Assessment - This is a risk assessment in which qualified personnel considers all credible overpressure scenarios with respect to each pressure equipment component within its scope, and determine either a required set pressure and capacity rating for a relief device, or a maximum upset pressure for which the component needs to be designed. Refer to AB-525.
- P.Eng. – A Professional Engineer is a person who is registered as a professional engineer in a professional organization and authorized to practice engineering in any province or territory of Canada in any state of the United States of America