ABSA
the pressure equipment safety authority

# Design Registration Application Supplemental Sheet

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



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

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

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. – as referenced in the Pressure Equipment Safety Regulation, means a professional engineer as defined in the Engineering and Geoscience Professions Act.