

## 1.0 PURPOSE

To provide guidance for completing Form AB-96, General Engineering Requirements for Design and Construction of Pressure Piping Systems.

## 2.0 APPLICATION

This form is used to document the information for design registration of a pressure piping system, as required by the Safety Codes Act and Pressure Equipment Safety Regulation.

## 3.0 GENERAL

Two completed AB-96 forms each with an original signature and stamp shall be submitted to ABSA's Design Survey Department for review and registration prior to the start of construction. (Only one copy of the form is required for electronic submissions.)

The latest version of form AB-96 is posted on ABSA's website at <https://www.absa.ca>.

## 4.0 INSTRUCTIONS

The following describes the information required for completing each item of the form. The numbers in these instructions correspond to the numbers on the form.

1. Provide the name and physical or mailing address of the ultimate owner.
2. Provide a short description of the type of plant where the pressure piping system will be installed. For example: chemical plant, refinery, power plant, etc.
3. Provide the plant location for the installation of the pressure piping system – legal site description (LSD) or complete physical address and/or facility name.
4. Provide the piping registration number of the plant if it has been previously registered. If the plant is new and has not previously been registered, then leave this line blank.
5. Provide the scheduled or tentative start and completion of construction dates when the work will be begin and when it will be completed. If dates are not decided indicate "TBD" to signify "To Be Determined".

6. Organizational Responsibility for Engineering Design:
  - a) Provide the name of the company responsible for the design of the pressure piping system. Include the job, contract, or other project reference number used.
  - b) Provide the APEGA Permit to Practice number for the engineering company responsible for the design of the pressure piping system. This field can be left blank when engineering is performed by companies outside of Alberta who are not required to obtain an Permit to Practice form APEGA.
7. Provide the prime contractor company name and address who will take on primary responsibility for construction and installation of the pressure piping system, including their job, contract, or other project reference number. Indicate the organization's Alberta quality control program registration number (AQP #) on the line provided. If a prime contractor has not been selected, then indicate "To Be Determined" or "TBD".
8. Indicate any applicable codes of construction to which the pressure piping system(s) have been constructed. **Make sure to indicate the applicable edition of each code used on the line provided, typically expressed as a year.** For ASME B31.1 piping, indicate whether boiler external piping ('BEP') and/or non boiler external piping ('NBEP') fall within the scope of the submission.
9. Confirm that the fittings used are suitable for the specific design service conditions by indicating "Yes" on the line provided. If the fittings used have already been registered with ABSA, then indicate "Yes" on the line provided. If some fittings have not yet been registered, then indicate "Pending" on the line provided, and provide additional details on a 'Supplemental Sheet'; such submissions will be considered on a case-by-case basis. All fittings are required to be registered with ABSA prior to their use in service.
10. List the type and extent of nondestructive examination that will be used.
11. The Pressure Equipment Safety Regulation requires that pressure piping be tested with the hydrostatic method, unless an alternative is acceptable to the Administrator. If an alternate testing method is used, then indicate which type of testing procedure will be used and whether this procedure has been included with this application, or if the alternate testing procedure will be submitted as another separate application for registration.
12. Indicate whether the submission includes any 'closure welds' that are examined using acceptable alternatives to hydrostatic testing in accordance with AB-519. Such submissions can be considered with the main piping submission, or under separate cover.

13. For systems that rely on one or more pressure relief valves, rupture disc devices, or pin devices for overpressure protection, provide a list of all such pressure relief devices, and refer to the list here. See section 6.1 of AB-525 for more information.
14. Indicate any methods relied upon for overpressure protection. If such methods are not referred to here, then all pressure piping systems within the scope of the submission will be understood to be protected by means of pressure relief valves as required by the Pressure Equipment Safety Regulation.
15. If the pressure equipment is protected by any means other than by pressure relief valves, AB-525 requires an overpressure risk assessment summary to be submitted, which meets certain requirements. Indicate the document number and revision number here, or indicate “Not Applicable” or “N/A” if the equipment is protected from all overpressure scenarios by pressure relief valves.
16. AB-525 Annex A provides a simple way for outlining specific deviations from AB-525 for easy review and acceptance, by providing a “statement of deviations from AB-525”. If such an approach is being taken, indicate the document and revision number here.
17. List any additional general remarks that pertain to this application.
18. List document numbers and revision levels for all documents and drawings submitted, which may include P&IDs or other layout drawings, line designation tables, and piping line class specifications, etc. If you choose to list these documents on a separate sheet, then provide a document number and refer to that number here, or use the supplementary sheet provided to list these documents.
19. Provide the name of the registered Professional Engineer who is responsible for the pressure piping system design. Provide the Professional Engineer’s seal and signature in the box provided for “P. Eng. Stamp”.
20. Complete the form by indicating the name and company name of the person submitting it, along with a signature and the date the form is signed.

Once the form is reviewed with a pressure piping design submission, a copy will be stamped to indicate ABSA’s acceptance and registration of the piping system, and provided back to you.