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. Indicate the applicable project type of submission – whether it represents:

    - 'New Construction' of a pressure piping system for a new plant with no existing registration,

    - 'Addition or Modification to Existing' to a pressure piping system which already is registered with a 'PP' number,

    - 'Used Piping' being adopted for use from a separate facility,

    - 'Mobile Piping', 'Hot Tapping' and 'TLHS'(AB-537 Thermal Liquid Heating System) type of submissions will require additional considerations when assigning the registration,

- 'Use Other' to describe a project type that do not fall under any of the above listed cases. A supplement page may be used for any additional project type information

5. 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.

6. 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".

7. 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 a Permit to Practice from APEGA.

8. 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".

9. 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') or non-boiler external piping ('NBEP') fall within the scope of the submission. Please note that BEP designs must be submitted as a separate piping submission and can't be combined with other piping projects registration applications. BEP design submissions can be submitted for registration as part of Boiler registration submission package. For more information, please check our website for the guideline, Guideline for Design Registration of Complete Boiler Unit.

10. 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 fitting designs are required to be registered with ABSA prior to their use in pressure service.

11. List the type and extent of nondestructive examination that will be used.

12. The Pressure Equipment Safety Regulation requires that pressure piping be tested with the hydrostatic method, unless an alternative is acceptable to the Administrator. Indicate whether hydrostatic testing is used for any portion of the submission, and whether any alternatives to hydrostatic testing are used for any portion of the submission. Pneumatic testing is addressed by ABSA documents AB-522 and AB-532, depending on the size of the test and whether the testing organization has a ‘standard pneumatic test procedure’ accepted by ABSA as a part of their integrity management system. For application-specific pneumatic tests, indicate whether the procedure is to be accepted with the present submission or has been or will be registered separately. For closure welds and initial service leak tests, attach documentation as required by AB-519.

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. Indicate the document number and revision number here or indicate “Not Applicable” or “N/A” if all pressure equipment is protected by pressure relief valves.

16. (1) Indicate if the pressure piping system complies with AB-525 in its entirety or (2) AB-525 Annex A provides for outlining specific deviations from AB-525 for 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 indicate ABSA's acceptance and registration of the pressure piping system design will be provided to the submitter.