Information Bulletin No. IB24-006 **July 19, 2024**

INTERPRETATION
Requirements for Loadings and User's Design Requirements Form for Pressure Vessels

This Information Bulletin is issued to clarify the requirements for pressure vessels constructed to CSA B51 *Boiler, pressure vessel, and pressure piping code* or ASME *Boiler and Pressure Vessel Code* (BPVC), Section VIII, Division 1.

1. Loadings

   According to Sections 14(3) and 15(1)(j) of the Pressure Equipment Safety Regulation (PESR), an applicant for the registration of a design shall ensure that design drawings submitted for survey and registration include all design conditions and loadings. Also, ASME BPVC, Section VIII, Division 1, paragraphs U-2(a)(1), U-2(a)(2)(-a), and UG-22 require that design requirements are established and all loadings considered.

   1.1. When design conditions and loadings, as provided in paragraphs U-2(a)(1), U-2(a)(2)(-a), or UG-22, are a requirement, these design conditions and loadings shall be provided on the design drawings submitted for survey and registration. It is not mandatory to include the User's Design Requirement Form in the design submission.

   1.2. Information about the maximum allowable working pressure or maximum allowable external pressure shall be included in the acceptance letter per Section 19(1) of PESR and paragraph UG-22(a) of ASME BPVC, Section VIII, Division 1. When design conditions and loadings, other than internal or external pressure per UG-22(a), are included in the design submission per Section 1.1 above, the acceptance letter shall include a note referring to these conditions and loadings in accordance with Section 14(4) of PESR.

2. User's Design Requirements Form

   A completed User's Design Requirements Form, or another document containing equivalent information, shall be provided to the Authorized Inspector or Certified Individual (as applicable) prior to the certification and signing the Manufacturer's Data Report when any of the listed design conditions and loadings in paragraphs U-2(a)(2)(-a) are specified as a design requirement by the user or their designated agent.

3. Manufacturer's Data Report

   According to Sections 25 and 26 of the Pressure Equipment Safety Regulation, an Authorized Inspector shall be satisfied that the construction was in accordance with the registered design. Also, ASME BPVC Section VIII, Division 1, paragraph U-2(b)(1) requires that the Manufacturer's Data Report shall include the design requirements.

   When design conditions and loadings as listed in paragraphs U-2(a)(2)(-a) are specified, in the registered design, these conditions and loadings shall be included in the "Remarks" section of the Manufacturer's Data Report according to paragraph U-2(b)(1).

Background

The user or the user's designated agent shall establish the design requirements for pressure vessel according to ASME BPVC Section VIII Division 1, paragraph U-2(a) and shall provide a User's Design Requirement, according to paragraph U-2(a)(2)(-a) when any of the loadings provided in U-2(a)(2)(-a) is a design condition. According to ASME BPVC Section VIII, Division 1, paragraph U-2(b)(1), the Manufacturer is responsible for the structural and pressure-retaining integrity of a vessel as established by conformance with the requirements of the rules provided in ASME BPVC Section VIII Division 1 and any additional requirements specified in the User's Design Requirement. Per paragraph U-2(b)(1), the Manufacturer's Data Report shall include the design requirements of paragraph U-2(a)(2)(-a) when specified.

<original signed by>

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