



August 25, 2006

SAFETY INFORMATION BULLETIN: SB06-01

Subject : Refrigeration Piping Fabrication, Installation, Repair or Alteration

Scope

These requirements are provided for those applicants who wish to obtain a Technical Standards and Safety Authority (TSSA) Boilers and Pressure Vessels Safety Certificate of Authorization for the Manufacture or Installation of Refrigeration Piping Parts and Systems regulated under the Technical Standards and Safety Act, Boilers and Pressure Regulation 220/01. An organization may qualify a program for Ontario only, by following the requirements described in this document. The issue of this Certificate of Authorization is available to companies and other organizations whose scope of business includes the Manufacture, Installation, Repair or Alteration of refrigeration piping parts and systems that qualify in accordance with these rules.

This program satisfies the requirements of CSA-B51, Part 1 and CSA-B52.

Certification Process

Owners, Users, Manufacturers, Installers, Repair or Alteration Organizations of Refrigeration Piping Parts and Systems regulated under the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation in Ontario may apply to the TSSA Boilers and Pressure Vessels Safety for a Certificate of Authorisation. Application Forms may be obtained from TSSA or the Boilers and Pressure Vessels Safety section of the TSSA website at www.tssa.org.

The applicant may manufacture or install piping parts or systems in its plants, shops, or in the field, provided such operations are described in the applicant's Quality System.

A holder of a TSSA Certificate of Authorization shall have and maintain a written Quality Control Manual. The Quality Control Manual shall be available for review by TSSA staff at anytime.

The Quality Control Manual shall be submitted to the TSSA Boilers and Pressure Vessels Safety Program in accordance with the requirements of the TSSA checklist for Accreditation of Manufacturers and Installers of Pressure Piping Parts and Systems. Copies of the manual shall be made available to TSSA in advance of a scheduled survey date.

Upon acceptance of the Quality Control Manual and payment of administrative fees to TSSA, a Certificate of Authorization will be issued for a period of up to three years expiring on the anniversary of the date of the Quality System review.

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Survey of Applicants Facility

The TSSA Boilers and Pressure Vessels Safety Program survey team shall conduct an evaluation of the applicant's Quality System at the shop or field site, except where the Simplified Review Process described below is applicable.

The applicant's organization shall demonstrate sufficient implementation of the Quality System to provide evidence of the organization's knowledge of material control, welding or brazing and other repair or alteration activities performed, appropriate for the requested scope of work. The demonstration may be performed using current work, a demonstration mock up, or a combination of both.

A recommendation to issue, renew, or withhold the Certificate of Authorization will be included in the TSSA survey report which will be forwarded to the TSSA Head Office for review and approval. The TSSA reserves the absolute right to cancel, refuse to issue or renew such authorization where there is a valid reason for doing so.

The applicant shall have available the latest edition and addenda of the CSA-CSA-B52 and ASME B31.5 Piping Codes or other Standards applicable to the TSSA Pressure Piping Certificate(s) of Authorization requested.

Simplified Review Process

Holders of ASME "S", "A", "M", "U", "U2", "PP", "H", "HLW" or CSA-B51 Certificates of Authorization to manufacture Boilers and/or Pressure Vessels may apply for a Simplified Review Process. In this case the following requirements shall apply in addition to the other applicable details outlined in this document:

- An uncontrolled copy of the ASME or TSSA accepted Quality Control Manual with a supplement that addresses compliance with the applicable piping Codes shall be submitted to TSSA Head Office for review along with a copy of a completed manual checklist.
- The Simplified Review Process does not require a survey of the applicant's facility.
- A TSSA surveyor will perform a review of the Quality Control Manual to ensure all applicable requirements have been addressed.
- TSSA shall issue a separate Certificate of Authorization for piping fabrication to successful applicants under this process.
- Fees will be charged based upon time spent on manual review, certificate preparation and TSSA administrative costs associated with maintenance of the program.

Renewal of Certificate

The Certificate of Authorization is renewable before the expiry date subject to a further survey and acceptance of the Quality Program by a designated representative of the TSSA Boilers and Pressure Vessels Safety Program. Application for renewal shall be made at least three months prior to the expiration date of the Certificate of Authorization.

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Additional Program Requirements

Brazers shall be qualified in accordance with the Boilers and Pressure Vessel Regulation.

The qualification for Brazers that are brazing on refrigeration piping can be maintained provided that all of the following requirements are complied with:

- a) The Brazer shall have used the specific brazing process at least once every six (6) months
- b) The Organization employing the Brazer maintains a record of this activity in accordance with their Quality Control Manual accepted by TSSA (i.e. by the use of a Brazers continuity log or other record).

The record shall be available at any time for review by a TSSA Inspector.

Repairs to pressure piping shall be performed in accordance with the Boilers and Pressure Vessels Regulation, Section (7). Brazed repairs to refrigeration piping systems may be performed by an Organization, without the involvement of a TSSA Inspector or an Insurance Company Inspector, as permitted by the Boilers and Pressure Vessels Regulation Section 7(5), provided the following requirements are complied with:

- 1) The Organization shall be in possession of a valid TSSA Certificate of Authorization.
- 2) The Organization shall follow the requirements of the TSSA accepted Quality Control Manual.
- 3) The Organization shall document the repair in accordance with the TSSA accepted Quality Control Manual.
- 4) The Organization shall ensure that repair records are kept on file for at least three (3) years minimum and shall be made available to a TSSA representative upon request.
- 5) The Organization shall also comply with all other legislated requirements, including mandatory trade qualifications, for the Province of Ontario.

Fees

Fees will be invoiced in accordance with the fee schedule from the TSSA website.

Changes to Requirements

The TSSA may at any time make changes to the rules for the issue of Certificates of Authorization. Such changes to the rules shall become binding on all certificate holders.

For further information contact:

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
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