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SAFETY INFORMATION BULLETIN: SB09-01

October 26, 2009

Subject: Rerating of Boilers and Pressure Vessels

Boilers and pressure vessels (excluding piping and fittings) where no physical changes to the equipment are required may be rerated for any of the following reasons:

1. to exempt equipment from the Ontario Regulation for Boilers and Pressure Vessels (Regulation), O.Reg. 220/01
2. to address deficiencies in existing equipment (by reducing pressure/temperature)
3. to increase the pressure and/or temperature on the nameplate to address operating needs

Rerating of Equipment for Exemption from the Regulation that is Currently Regulated

Rerating of equipment to exempt it from the Regulation applies only for equipment which is regulated based on the original nameplate information but where the actual required maximum pressure and temperature conditions of the equipment is established as low enough to permit exemption from the Regulation. Revised nameplate stamping information and a pressure relief device set at or below the new nameplate stamping information can permit exemption from the Regulation.

After re-stamping of the nameplate and installation of the appropriate pressure relief device, the equipment is considered as exempted from the Regulation. The installed pressure relief device and nameplate re-stamping shall be verified by the TSSA inspector with the Boilers & Pressure Vessels Safety program (inspector) and shall be done in such a way that the original nameplate information shall be struck through but is still legible.

It is the owner's responsibility to contact the inspector for verification that the rerating has been done properly and is acceptable to the inspector.

The TSSA Repair or Alteration Report¹ shall be filled out after verification of completion by the inspector and signed by both the owner and inspector. The TSSA record will be updated by the inspector.

Rerating of Equipment to Address Deficiencies

Rerating of the equipment to address deficiencies of the equipment (by reducing pressure and/or temperature) shall be done through the re-registration process where a new CRN (Canadian Registration Number) that is 5AN number is issued. This process applies to regulated boilers and pressure vessels under the Regulation where the equipment after re-rating will still be regulated. For re-rating to address the equipment deficiencies the owner shall submit an application for design registration and the required documentation. The application¹

¹ Refer to TSSA website, www.tssa.org/regulated/boilers/boilersForms.asp

to TSSA shall include two sets of drawings and calculations stamped by a professional engineer registered or licensed in the province of Ontario and any applicable non-destructive examination reports. The application should also include the original CRN, serial number of the equipment and when available a copy of the manufacturer's data report.

After issuance of the 5AN number by TSSA, the owner of the equipment shall contact the local inspector for verification that an additional re-rating nameplate has been attached to the equipment adjacent to the original nameplate with the new information on it. Information on the re-rating nameplate shall be in accordance with the re-registration and CSA B51 and shall have the following information:

- Rerated
- CRN (5AN number)
- Name of the company
- Maximum Allowable Working Pressure (MAWP) and Temperature
- Minimum Metal Design Temperature
- Date of re-rating

Information on the additional rerating nameplate can be stamped, embossed, grooved, etched or marked permanently acceptable to the inspector. The nameplate shall be permanently attached to the boiler or pressure vessel for the remaining life of the equipment and shall be located adjacent to the original nameplate.

If it is necessary to weld a new nameplate bracket on the pressure part of the equipment then this shall be treated as a repair performed by a TSSA Certificate of Authorization Holder, with the repair report signed by the TSSA Certificate of Authorization Holder and the inspector.

A TSSA Repair or Alteration Report¹ shall be filled out after satisfactory verification of rerating completion by the inspector and signed by both the owner and the inspector. The TSSA record will be updated by the inspector.

Rerating of Equipment to Increase Pressure and/or Temperature

Rerating of the equipment to increase the pressure and/or temperature stamped on the nameplate is an alteration and shall be done the same way as it is described above for rerating to address deficiencies and in accordance with the National Board Inspection Code Part 3, Section 3.4 Alteration.

If it is necessary to weld a new nameplate bracket on the pressure part of the equipment then this shall be treated as a repair performed by a TSSA Certificate of Authorization Holder, with the repair report signed by the TSSA Certificate of Authorization Holder and the inspector.

A TSSA Repair or Alteration Report¹ shall be filled out after satisfactory verification of rerating completion by the inspector, and signed by both the owner and the inspector. The TSSA record will be updated by the inspector.

Original Document Signed

Director,
Boilers & Pressure Vessels Safety and Operating Engineers