



Pressure Vessels

Pressure vessels, typically boilers, chillers, hot water heaters, etc. are a common site in the mechanical room.

However, there's a lot more to pressure vessel repairs than meets the eye, which is why in the U.S. it is governed by the National Board (NB) under a classification called R Stamp Welding.

Pressure Vessel Repairs and R Stamp Welding

Accidents can, and do occur which is why it's important you have a trusted firm making repairs on your mechanical equipment. A badly welded repair can result in fire and in the worst case scenario explosion and potential fatalities.

For the majority of States across the U.S. pressure vessel repairs, by law, must be performed by an organization in possession of a valid Certificate issued by the National Board of Boiler and Pressure Vessel Inspectors. Generally recognized by the "R" Stamp Symbol, this certification means that the companies making the repairs have gone through a rigorous authorization process which ensures a safe and reliable repair that is made under warranty.

General & Mechanical Services (GMS) performs R stamp welding and holds the Certificate of Authorization and "R" stamp symbol for the repair and/or alteration of boilers, pressure vessels and other pressure-retaining items. This means that GMS technicians follow a rigorous Quality System to cover the scope of steam boiler repairs or alterations to be made. After the repairs are made, GMS will attach the "R Stamp" to the vessel and then complete and deliver the required forms to the owner—signed by an authorized inspector.

For more information about "R Stamp welding" please visit the National Board Website www.nationalboard.org/default.aspx



GMS Case Study: U.S. Capitol Power Plant, Washington DC

GMS was hired by York International to perform large and small bore piping on three 6,000-ton chillers serving the nation's capitol. GMS was responsible for the procurement, fitting and welding of this intricate piping requiring exact precision, under the direction of the factory. Once the welding and repair services were carried out in accordance with National Board procedures, GMS created the required R Stamp documentation and then coordinated and facilitated the 3rd party inspection. Once the welding work was approved by the inspectors, GMS was permitted to install the R Stamp Tag on the vessels.

Did you know?

A Pressure vessel is defined as a closed container designed to hold gases or liquids at high pressure.

Did you know?

When water changes from liquid to gas – steam – it has an expansion rate of almost 1,600 times its original volume. In other words, water neatly contained in a small space instantly requires about 1,600 times more space when it converts to steam.

Advantages of maintenance

- Systems and equipment last longer
- Fewer costly repairs
- Energy efficiency increases
- Healthy air quality
- EPA compliance
- Documented equipment history
- Up-to-date warranty documentation

Did you Know?

GMS is a proud member of the United Association Union of plumbers, fitters, welders and HVAC service techs. Visit our Website for more information:

www.gms-hvac.com