ON-SITE HEAT TREATING SERVICES:
PRESSURE VESSELS

“The Industry Leader in Heat Treatment of Pressure Vessels, Tanks and Towers with Direct Combustion Gas Fire”
**Frequently Asked Questions: Vessels, Tanks and Towers**

**Can GCC come to our shop and safely perform the gas fire process on our vessels?**

Yes. Most fabrication shops are built with highly ventilated air for the welding vapor. Our combustion systems are very efficient clean-burning gas equipment. With very little carbon emissions, the primary concern is the placement of the exhaust which can easily be manipulated to a safe location. Additionally, work performed on-site can be monitored 24/7, unlike sending them off to a furnace.

**Has GCC ever performed this service on vessels in a refinery with reactive materials in the surrounding areas?**

Yes we have; very successfully. Much more detail goes into the execution plan from both GCC and the customer for safety and communication purposes. With proper planning, the gas fire process can be done very safely inside a refinery and is extremely cost effective compared to other methods.
After an inquiry for services has been made, a trained estimator and our quality control department will work together to find the optimal solution for your heat treating needs. Before this process begins there are a few details of the project we need from you to get started:

1. Project Scope
   A detailed drawing of a work piece would be sufficient for GCC to determine a procedure structure, but if you are still working on drawings and just want a budgetary estimate for your bid, these are the details we will need for accuracy:
   • Material type
   • Weight
   • Length
   • Diameter
   • Wall Thickness
   • Does the vessel have any parts that would need electric back up? (Repads, flange faces, etc.)

2. Location and Resources
   The location of service is very important for a more accurate bid and should be included with all estimations. GCC’s combustion equipment needs both a dry gas and electrical power to operate. By using resources available in shops or plants (ie. Natural gas and/or 480 Volt 3 phase power) a customer can immediately save up to thousands of dollars. If natural gas and/or electrical power is not available at the location work is to be performed, GCC can accommodate and mobilize gas and power to your location.

3. Customized Procedures
   GCC has developed its own quality control manual that can be viewed by any customer at any time. When a custom heat treating procedure is being built for a specific heat treatment, GCC identifies it as an execution plan. This execution plan is written in detail the steps taken to heat treat (1) work piece. A copy will be sent to the customer for approval before the start of work. A copy of the procedure will also stay on-site with a GCC shift supervisor to ensure quality control.
   The customized procedure will detail: where and how burners will be installed, number of thermocouple (T/C) readings, and placement of thermocouples. The execution plan will include a Quality Control section on how the T/C’s are applied to the work piece and where to safely exhaust. The procedure will also include a heat cycle using ASME code and/or customer specifications for a precise result. We strive to surpass all standards in our industry.

Call us at (713) 425-3773 or visit our website at www.gulfcoastcombustion.com to discuss what we can do for you. See the back page for additional heat treatment services offered.

Contact us Today for a Solution to Your Heat Treating Needs

For Sales & Technical Support: 713-425-3773

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www.gulfcoastcombustion.com
Additional On-Site Services Offered by Gulf Coast Combustion:

- Coating/Paint Cures
- Decontamination of Large Storage Vessels
- Expansions
- Full/Partial Refractory Dry-out
- Furnaced Post-Weld Heat Treatment
- Hardness Testing
- Hydrogen Bake-outs
- Hydrocarbon Bake-out
- Line Thawing
- Localized Post-Weld Heat Treatment
- Low-voltage electrical resistance
- Space Heating
- Temporary and Permanent Furnace Operations
- Welding Pre-heats

Please contact us at 713-425-3773 for information or quotes on any of the services listed above.