



## Combustion Services from ETTER Engineering



In keeping with our tradition of providing "Solutions...To All Your Process Heating and Combustion Needs," ETTER has a fully staffed and trained Service Department that is capable of supporting the products on our Line Card, as well as any other combustion equipment in your facility. We understand that in this business climate, budgets are tight, reducing costs is important, maintenance and repair departments are overburdened, and that just makes matters worse when your combustion equipment doesn't operate as it should.

While ETTER Service Technicians are ready to respond to any type of equipment problem, why not consider looking at our Preventive Maintenance and Safety Audit Programs as a means to avoid those costly and nuisance emergency outages before they happen? You will not only benefit by eliminating production downtime, but you will be assured your combustion equipment is operating safely, you will have met the yearly safety requirements of NFPA-86, and the icing on the cake is often saving as much as 5 or 10% in fuel costs due to your burner(s) being out of tune.

Call ETTER today to schedule one of our Service Sales Staff to visit your plant, assess your needs, and provide a Quote for this important component in keeping your operation successful! We can also provide recommendations for Energy Savings upgrades, Start-up Services, and preventive maintenance programs.

**To learn how ETTER Engineering can help you with your needs, call us at 1-800-444-1962 today!**

## NFPA 86 Standard for Ovens and Furnaces 2011 Edition

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### An ETTER Success Story!



Can you hear me now? Good! ETTER Engineering recently received a wonderful letter of thanks from Massachusetts engineering firm [Frank I. Rounds](#), commending us on a job well-done at a Verizon facility!

To read this and more letters of praise and recommendation, **visit our [Accolades Page](#)** on the web!

### Tech Tip:



**Energy Saving  
Tips:**



The 2011 Edition of the NFPA 86 Standard for Ovens and Furnaces has just been released, containing several changes combustion equipment owners and plant managers should be aware of.

Many insurance companies today require NFPA 86 compliance. ETTER Engineering's Service Department is uniquely qualified to conduct Safety Audits ensuring compliance with the NFPA 86 Standard. An [ETTER NFPA 86 Safety Audit](#), performed at your convenience and delivered to you as a PDF document, verifies whether your equipment is up to date, and satisfies insurance regulations!

Some (but not all) of the changes to the NFPA 86 Standard for 2011 include:

- Valve seat leakage testing of safety shutoff valves shall be performed at least annually.
- Safety shutoff valves shall be replaced before they exceed their maximum allowable number of lifetime open-closed cycles.
- Shutdown of the heating system by any safety feature or safety device shall require manual intervention of an operator for re-establishment of normal operation of the system.
- Repeating the pre-ignition purge shall not be required where any one of the following conditions is satisfied:
  - The heating chamber temperature is properly proved above 1400° F
  - For a multiburner fuel-fired system NOT proved above 1400° F, all of the following conditions are satisfied:
    - \* At least one burner remains operating in the common combustion chamber of the burner to be re-ignited.
    - \* The burner(s) remaining in operation shall provide ignition of any unintended release of fuel through other burners that are not in operation without explosion.

**For a full recap of the updated NFPA 86 Standard, please contact ETTER Engineering!**

### **About ETTER Engineering:**

ETTER Engineering has been serving the Process Heating & Combustion industries since 1940. With over 100 years of combined combustion experience on-staff, ETTER is **THE ONE**

- Schedule tuning based on equipment use.

- Tune for no more excess air than required for clean combustion.

- Consider a linkageless system to maintain air/fuel ratio plus...

- Look for unintentional sources of excess air (missing/leaky observation port doors, cracks in setting, etc.)

### **Quick Links**

[ETTER Blog](#)

[Parts Line Card](#)

[More About Us](#)

**STOP SHOP FOR ALL YOUR COMBUSTION NEEDS!** From Custom Engineered Systems to parts and service, ETTER is ready to assist you in completing your next project on-time and under budget.

Thank you for your continued business. We are here to be your partner in all your combustion related projects!

**ETTER Engineering, Inc.**

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[www.etterengineering.com](http://www.etterengineering.com)

