



Innovative Combustion Technologies, Inc. (ICT), founded in 1993, is an established, results-oriented company that provides boiler testing, combustion troubleshooting, environmental services, consulting, specialized test equipment, and training services to fossil-fired power plants. Combustion problems or opportunities for improvement often develop unexpectedly and most plants do not have combustion experts or testing equipment on hand to quickly troubleshoot combustion challenges. ICT provides real expertise and specialized testing equipment to meet our customers' needs. We are practical "coveralls, tape measure, and flashlight" engineers and technicians that concentrate on identifying and correcting the problem with existing equipment by using proven and practical field solutions.

**Innovative Combustion Technologies, Inc.**  
205.453.0236 | [www.InnovativeCombustion.com](http://www.InnovativeCombustion.com)



Innovative Combustion Technologies, Inc.  
2367 Lakeside Drive, Suite A-1  
Birmingham, AL 35244



**EMISSIONS**

**ENVIRONMENTAL CONTROL**

**COMBUSTION PROCESS TESTING & EVALUATION**

Innovative Combustion Technologies, Inc. (ICT) offers a full spectrum of EPA stack testing services for all types of utility boilers and industrial installations. This battery of tests satisfies regulatory requirements for emissions testing as well as providing vital process evaluation data, performance optimization, and guarantee testing. All of the testing conducted by ICT is performed by experienced and competent professionals who understand the need for producing precise high-quality data in a timely manner with safety being of utmost importance. Our stack testing teams routinely sample for all regulated pollutants including criteria pollutants, hazardous air pollutants (HAPs), and volatile organic compounds. ICT's capabilities include, but are not limited to, the following:

#### Emissions Testing:

- HAPs (Hazardous Air Pollutant) testing
- EPA Method Testing (Inherent Methods 1, 2, 3, 4, 9)
- EPA Methods 5, 17, 201, and 202 (including PM, PM 10, CPM, Filterable, Non-sulfate, Condensable)
- EPA Method 6 (SO<sub>x</sub>), 8 (Sulfuric Acid and SO<sub>2</sub>), and 8A (controlled condensate) for SO<sub>3</sub>
- Method 7 (NO<sub>x</sub>)
- Method 10 (CO)
- Method 29 (Metals), Method 30B (Mercury)
- Lab capabilities for processing EPA method sampling
- Volatile and Semi-volatile organic compounds
- Total and speculated hydrocarbons
- RATA testing

#### Combustion Process Testing and Evaluation:

- Burner tuning/Flame shaping
- Boiler Optimization (O<sub>2</sub>, CO, CO<sub>2</sub>, NO<sub>x</sub>)
- Excess Air Optimization testing
- Air Heater Leakage testing

#### Environmental Control:

- AIG/SCR tuning and optimization for NH<sub>3</sub> slip reduction
- SNCR - furnace mapping for optimization and modeling



ICT provides Equipment, Training Seminars,  
Consulting and Testing Services.

For inquiries, contact:

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