

# ON-LINE AND OFF-LINE BOILER CLEANING WITH MICRO-EXPLOSIVE TECHNOLOGIES

## Benefits:

- Clean boiler while in full production at temperatures exceeding 1093°C (2000°F)
- Fast and Powerful solution for fire-side ash & slag deposits (hard or soft)
- No human entry—Remote operation  
*Safely remove large hanging deposits*
- Infinitely adjustable positioning
- Utilizes existing access ports  
*No boiler retrofit required*
- Boilers of all size and design
- Safe to boiler components

## Typical Areas of Application Include:

1. Grates/Rollers/Hearths/Rotary Kilns
2. Furnace
3. Evaporator
4. Superheater
5. Economizer
6. Plugged Ash Hoppers
7. Flue Gas Reactor Vessel
8. Large hanging deposits

## On-Line Boiler and Vessel Deslagging During Full Production

or

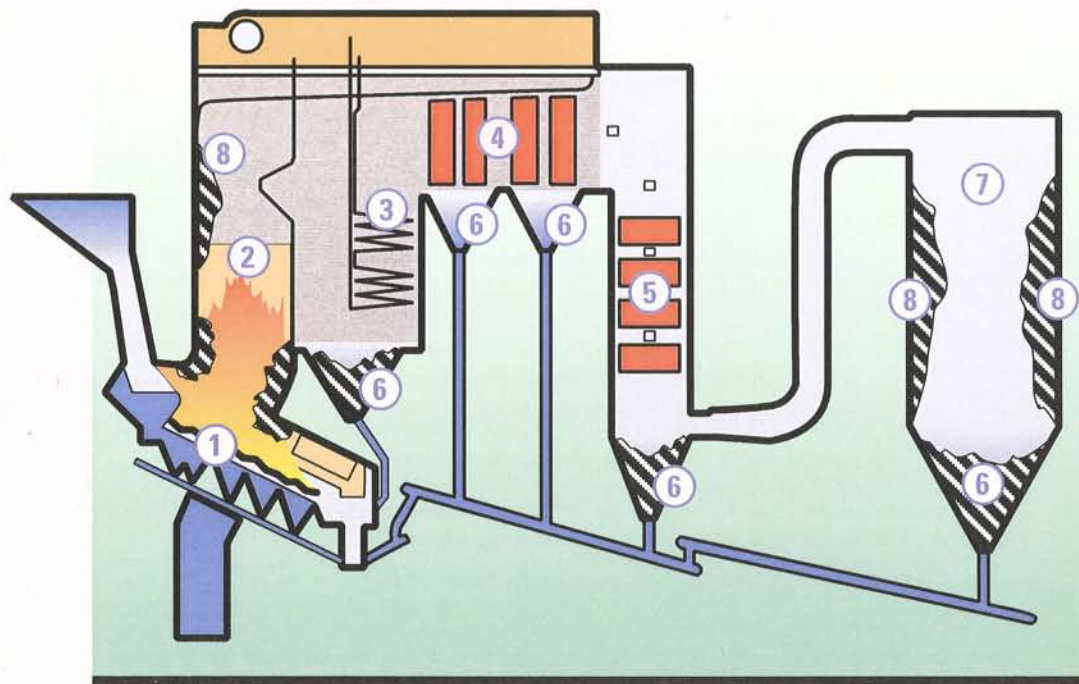
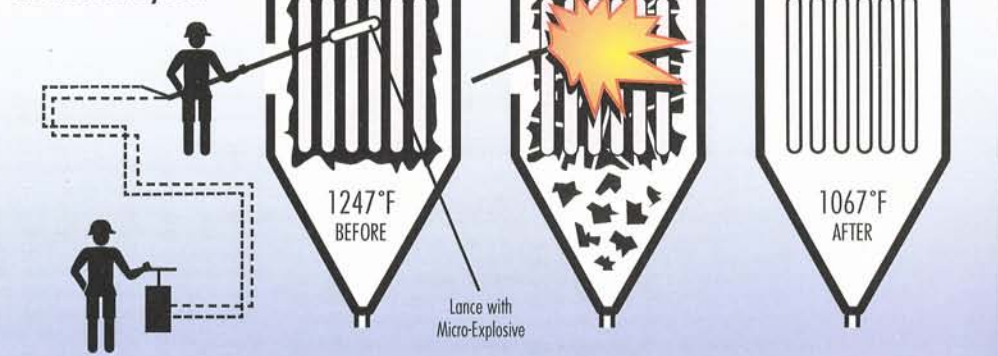
## Comprehensive Explosive Cleaning During Emergency or Scheduled Boiler Shut-Down

## NorthAmerican Industrial Services: A Successful History of Safety and Efficiency.

Patented Cleaning System • ISO Compliant • Worldwide Service Capability • International Explosive Licenses • Performing Over 1000 Explosive Cleanings Per Year • Emergency Response • Servicing Waste to Energy, Bio-Mass, Wood Burning, Coal, Oil, and Alternative Fuel Power Stations • Hazardous Waste Incinerators • Papermills • Petro-Chemical • Manufacturing Industries ...

### On-Line Boiler Cleaning Process

#### The Patented System



#### CORPORATE HEADQUARTERS

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Increase Your Production Time — Contact Us Now!