

ON-LINE

MICRO-BLAST CLEANING

COMPLETE ON-LINE BOILER INSPECTION AND CLEANING FOR EXTENDED RUN TIMES

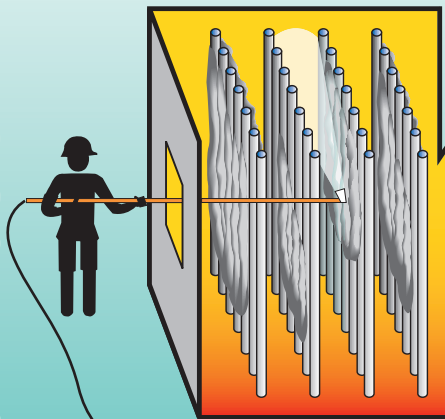
On-Line Video Inspection

- Service during temperatures exceeding 2000°F
- Camera assisted cleaning ensures unmatched and verified results
- Slag and deposit detection
- Quickly locate hidden tube leaks
- Boilers and vessels, confined spaces
- Provides you with high quality digital video documentation
- Multidirectional & zooming capability

The On-Line Video Inspection Process:

1. HIGH TEMPERATURE CAMERA LOOKING 90° DOWN THE GAS LANES FOR PRE-CLEANING AND POST CLEANING INSPECTION.

2. LIVE VIDEO FEED FROM CAMERA TO MONITOR, RECORDING HIGH QUALITY INTERNAL BOILER IMAGES FOR USE IN CLEANING DOCUMENTATION.



The Safest and Most Effective On-line Blast Cleaning Service

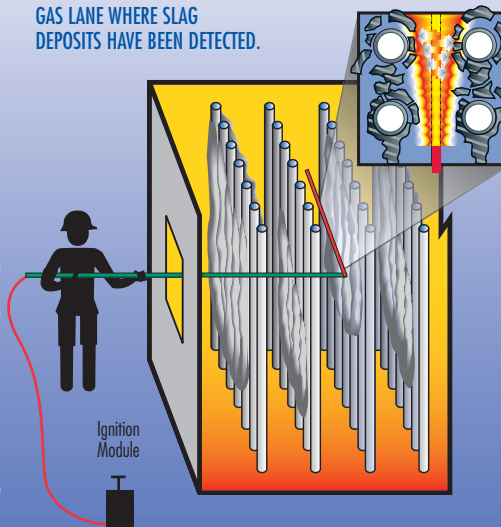
- Cleaning during temperatures exceeding 2000°F
- Low-impact, low risk slag removal
- Highly targeted micro-detonations occur within the gas lanes
- Minimizes risk of hopper pluggage
- Increase steam production On-line
- Quickly reverse rising DP
- Clean boiler On-line prior to scheduled outage
- Greatly extend the run cycle
- Eliminate forced outage due to heavy fouling

The Low-Impact 90° On-Line Boiler Cleaning Process:

1. TUBULAR MICRO-EXPLOSIVE IS INSERTED AT 90° IN THE GAS LANE WHERE SLAG DEPOSITS HAVE BEEN DETECTED.

(INSET) TUBULAR MICRO-EXPLOSIVE DETONATED IN THE GAS LANE FOR HIGHLY TARGETED SLAG REMOVAL.

2. POST-CLEANING VIDEO FEED FROM CAMERA VERIFIES THAT 360° CLEANING HAS BEEN ACHIEVED AROUND TUBE SURFACES.



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