Fuel Safety

INNOVATIVE ENERGY SOLUTIONS

RJM

INTERNATIONAL

A Utility Perspective

There are three key things to consider:

- Safety
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Code words for:

- Human tragedy
- Financial ruin (lost earnings, damages, destruction of valuable assets)
- Lose of reputation and moral
- Lose of brand name
- Inability to operate
- Imprisonment

Concerns

- Personnel safety
- Storage of Fuel – fires, dust, biohazards
- Handleability – flow interruption, dust release
- Pf safety – things going bang!
- Flame stability - think
- Burner coking
- Ash build up e.g. slagging

Hot stockpile

Burning money

Risk to personnel

Handling issues and dust

Dust explosions

Explosion severity varies with dust type

Corn starch

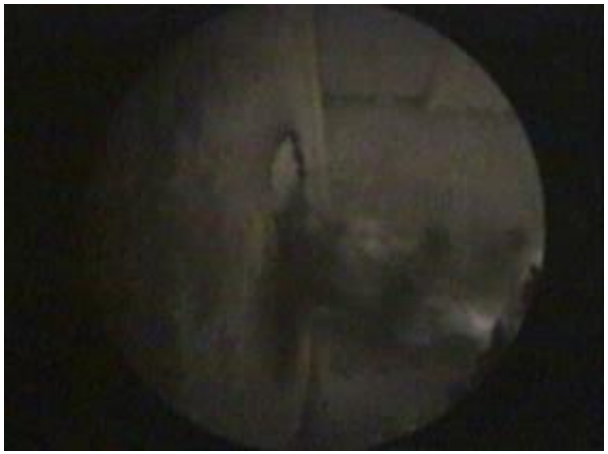
Aluminium powder

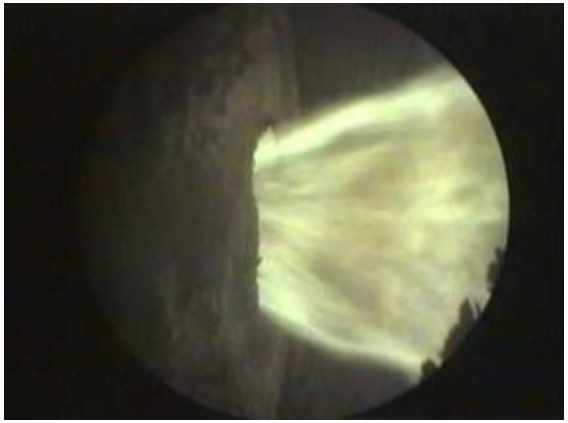
What's missing ?

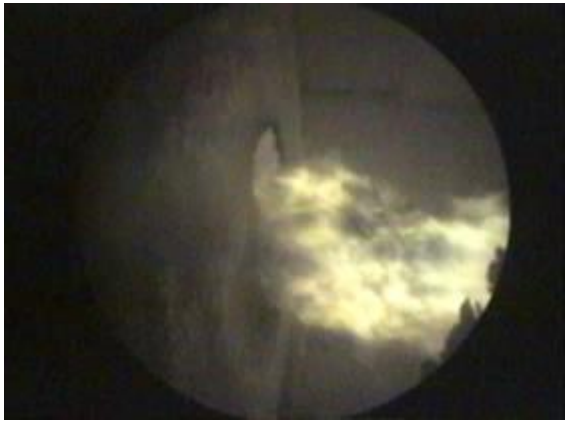
Furnace stability

Photo 4: Unit 7 Furnace - In-line with bottom row burners, showing casing bulge

Flame Stability

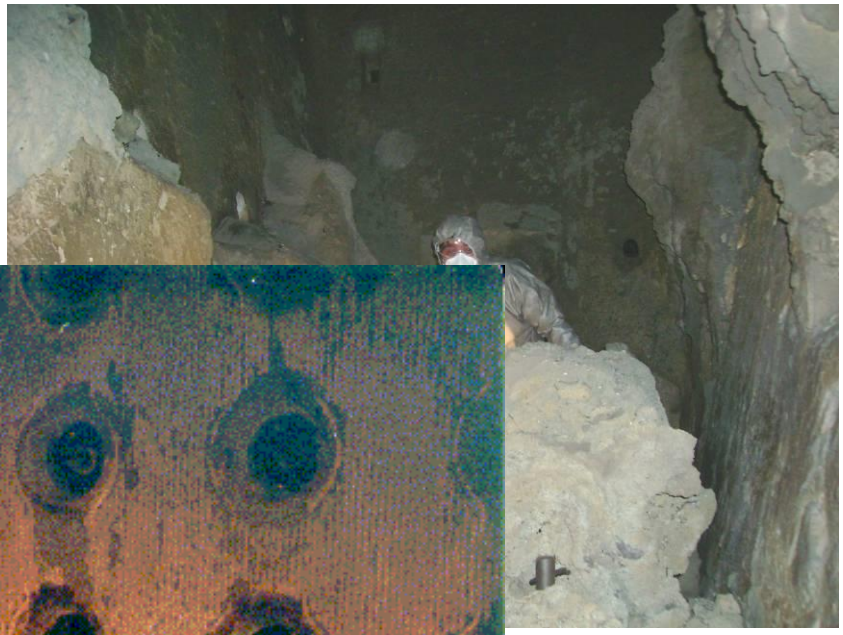


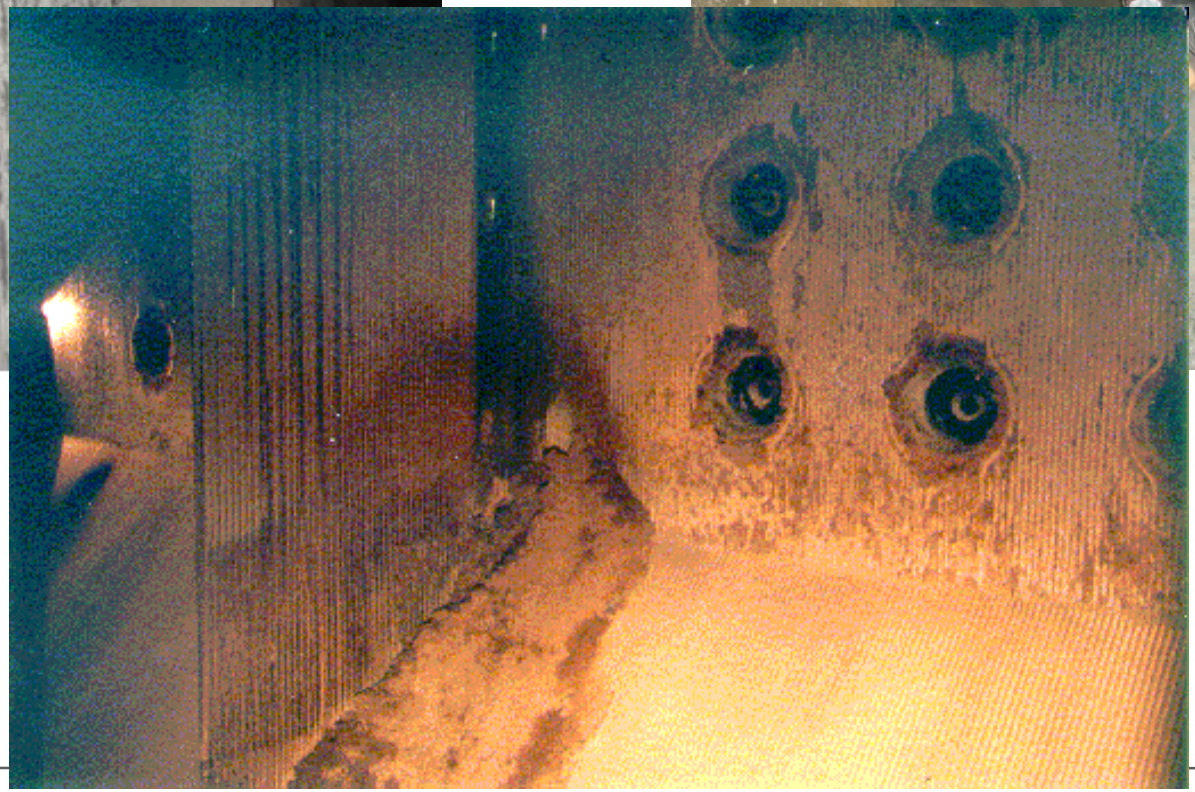




Burner damage caused by burner coking

Ash build ups – which can fall!





In Summary

In the UK it is probably true to say:

"Without being a safe business, you won't have a business".