

HSR Questionnaire

General questions to determine option for Hot Spot Repair

- 1) Type of thermal unit?
- 2) Operation temperature?
°C
- 3) Inner flue gas pressure? (If pressure higher than outside and no process procedures to get in lower, HSR will not be possible!)
- 4) Kind of fuel?
- 5) Oxidizing or reducing atmosphere ?
- 6) Unit, designed by whom? (Lummus, Technip -KTI, Kellog. Foster Wheeler, etc.)
- 7) Type of refractory lining in damaged area? (roof-walls-door- floor);
Ceramic fibre (modules or blanket lining), brick lining, refractory concrete?
- 8) Lining thickness ? (as designed)
mm
- 9) How big is damaged area? (Surface in m²)
m²
- 10) Condition of unit (lining) New/Old, how many years in operation?
New Old Years
- 11) Position of coils (only in petro-chemical units or boilers) versus walls.
Drawing or layout available? Yes No

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12) Position of burners? Radiant wall burners and/or floor burners.

13) Position of peepholes (if present) versus hot spots?

14) Condition of outer casing (plate) ? Thickness?
mm

15) Recent thermal scan made/available?
Yes No

16) Recent photos available?
Yes No

17) Is there an emergency cooling running?
Yes No

18) How is access versus hot spot? (terrace , stairways, temporary scaffolding, hoisting cabin)

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