BWSC

FLUE GAS STACK INSPECTION & REPAIR

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Inspection, reporting and repair

It is recommended that flue gas stacks are inspected approximately every other year to reveal incipient degradation and initiate necessary repair in due time to reduce the risk of costly break- downs and extensive downtime and ensuring long lifetime of the stack.

Damage to steel stacks is usually caused by corrosion and wind impacts. Heavy corrosion can cause aggressive flue gases escaping from the inner tube causing damage to the insulation material and corrosion to the outer shell, internal ladders etc.

BWSC offer the services of flue gas stack specialist engineers qualified to carry out inspection and repair of power plant steel flue gas stacks.

Stack inspection

The inspection comprises:

- the stack inner tube, insulation and shell by means of rappelling and/or camera and thermo graphic scanner
- measuring points
- ladder, platform and fall protection equipment
- paint/coating and surface condition of the shell
- exhaust gas silencers
- measurement of corrosion loss by use of ultrasonic measurement equipment
- examination of vibration dampers and compensators
- examination of the stack foundation, both outer and inner
- cleaning of the inner foundation (stack bottom) and drainages
- measurement of earth (PE) connections

Stack repair

Based on the results of the inspection, repair can be offered e.g:

- repair/replacement of cracked and corroded parts
- replacement of gaskets, re-tightening of bolts and cleaning of drains/ventilation ducts.
- replacement of gaskets and compensators
- repair of exhaust connection from building to stack
- non-destructive (NDT) testing of cracks

BWSC-10-0108-rev02-10/19

Burmeister & Wain Scandinavian Contractor A/S
Gydevang 35 • 3450 Allerød • Denmark
T: +45 4814 0022 • bwsc@bwsc.dk • bwsc.com

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