



Press Release

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Protecting and Extending the Life of Heat Recovery Steam Generator (HRSG) Boilers

ecoLake has developed a process to protect the external surfaces of the pipes of HRSG boilers from rusting during the annual shut-down periods by fogging the interior with a safe, water-based corrosion inhibitor. Until now pipework rusting during shut down has been problematic and has had to be managed to limit the environmental impact. Now there is a safe, facile method of treatment with a superior environmental profile which may also extend equipment life.

The anti-corrosion product used, is formulated with organic contact and vapour corrosion inhibitors delivered in a water-based formulation. When fogged into the boiler the corrosion inhibitor sticks to exterior surfaces of all the internal metal pipework as a molecular layer.

The system of fogging provides the most economical and environmentally acceptable method of corrosion protection of the exterior surfaces of the steel pipework during shut downs.

Once the boiler is restarted, environmental issues with exhausts from the boiler are eliminated and the piping has been protected from corrosion during the critical period through the shut-down.

The ecoLake service offered includes site visits to evaluate suitability and development of COSHH, Risk & Manual handling forms in collaboration with the customer SHE department. The entire job from design to implementation is carried out by our qualified experienced contractors. No post-boiler start clean-up is required.

As the unit is started and hot gas from the GT is fed into the HRSG (boiler) the velocity of the gas stream will start to scrub the product molecules from the metal surface. Within approximately 24 hours of operation the molecules will be gone from the system with no adverse environmental impact.

Independent testing in the UK by Plant Design Engineers show that the product and process used:

1. will not negatively impact mechanical properties of the various alloys used in GT, ST and HRSG
2. does not promote IGA, IGASCC, SCC
3. does not impact Thermal Barrier Coatings
4. has no negative impact on the catalyst used in the SCR system.

For further information please visit www.ecolake.co.uk call 01527 830 580 or email info@ecolake.co.uk

ecoLake is a business unit of Lake Chemicals and Minerals Ltd., a Technical Distribution Specialist with head office in Redditch, UK, responsible for the sales and marketing of speciality chemicals, minerals and technical products to customers in the UK and Ireland.

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