

Coke Drum Services

Engineered repair and upgrade solutions



Structural reinforcement of a Delayed Coker Unit

Cracks, bulges, skirts, cones and shell sections

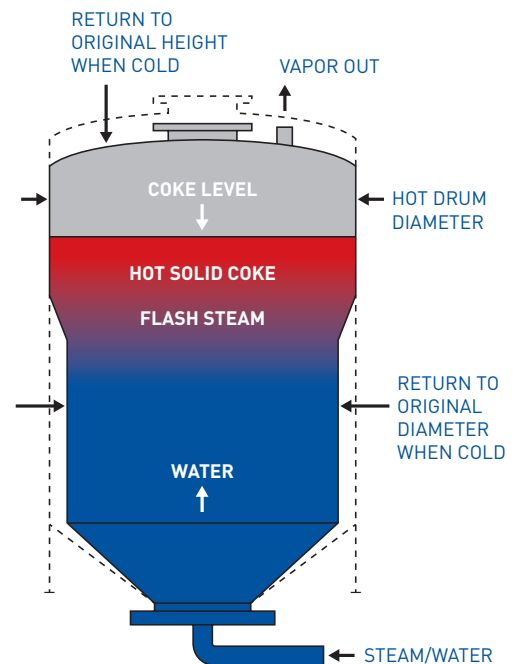
Today's severe operating conditions are turning functional components into non-performing assets. Transient thermal gradients during process cycles continue to occur and are monitored. Nonetheless, the unit operator is focused on keeping drums maintained and reliably on line.

Many problems – few solutions

The experienced operator clearly knows the type and location of potential problems in coke drums such as bulge repairs and mitigations, seam crack repairs, shell section repair/replacement, and corrosion/erosion issues. Unfortunately, conventional repair practices may take the unit out of service for too long or the repair life is too short. The ideal solution is a repair or upgrade that can be implemented quickly and lasts forever.

Unique capabilities – proven processes

Our innovative maintenance through automatic weld repair solutions deliver permanent results. Qualified processes have been developed to reduce or eliminate post-weld heat treatment and provide long-lasting results.



WSI is a specialized services company focused on the Energy Industry

With over 30 years' experience, we are dedicated to serving our customers safely around the globe. We offer innovative maintenance through automatic weld repair solutions that extend the lifetime and maximize the value of our customers' assets.

Full-service repair and upgrade solutions provider

- We repair and upgrade assets and protect against corrosion and erosion utilizing proprietary weld overlay technology.
- We offer structural repair of components and reinforce assets to extend their operational life span.
- We provide specialized welding solutions for challenging materials, locations, geometries, and environments.
- We offer engineering support that includes tooling design, metallurgical consultation, Finite Element Analysis (FEA), welding process design, and mock-up capabilities.
- We provide 24/7 manufacturing capabilities and qualification environment via our Shop Facility.
- We are committed to our qualified QA programs for production and field fulfillment.

For more information, please email wsi-usa@WSIsolutions.com or visit WSIsolutions.com



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WSI delivers permanent solutions

We have a range of engineered solutions that can improve the reliable operation of coke drums:

Coke drum usual failures



Sidewall bulges



Circumferential cracking



Skirt-to-shell cracking



ID cladding defects, CUI, corrosion and cone erosion

WSI engineered solutions for coke drums



Bulge repair and structural reinforcement



Seam crack repair and reinforcement band



Cone and head removal, repair and reinforcement



Weld overlay for build up and material upgrading