



Structural Integrity Associates, Inc.®

Critical Component Repair and Systems Fabrication

More and more the power industry is looking for companies to provide Turnkey Solutions. This is especially true for the fabrication, installation and repair of critical plant components. Structural Integrity and Wachs have joined forces to provide the industry with the best possible solution.



As the conventional fossil and combined cycle fleet ages the probability of failure of critical plant components such as headers, piping, turbine casings and valves increases. Often the replacement of these components is not a financially viable option. Plant owners and operators need to be able to execute effective repair welding projects that are technically excellent, fit within available outage schedules and meet all code and local jurisdictional requirements. Most often these repairs are the result of an unexpected failure/forced outage, or damage was detected during a scheduled outage and the repair completed in the short window to avoid an outage extension. To compound the problem most plants are being asked to do more with less. Resources to manage the various and complex components of a repair project no longer exist at the plants. The solution is a one stop shop.

Structural Integrity has brought together the necessary resources to properly and comprehensively manage critical component life for new or existing plants: including design, procurement, fabrication specification development, fabrication, construction specification development, installation, and comprehensive baseline data package. Furthermore, only Structural Integrity has demonstrated the ability to apply the same robust, broad-based expertise to the identification of damage root cause, development of appropriate and cost-effective remedial actions, and implementation of repair technologies to ensure safe continued operation of damaged critical components.

STRUCTURAL INTEGRITY'S SOLUTION

We established a strategic alliance with Wachs Energy Services Company (WES) to provide the conventional fossil and combined cycle power plant owners/operators with a comprehensive solution for the repair, remediation, fabrication, and erection of critical pressure parts and systems service. By working together, we bring our highly technical, engineering expertise to fossil and combined cycle plant critical component assessments. SI has advanced non-destructive examination to root cause analysis, metallurgical analysis at our in-house metallurgical lab, stress analysis, finite element modeling, fitness for service and providing remaining life assessments. While WES brings unmatched precision field machining, shop and field welding services, craft labor manpower augmentation and expertise in boiler maintenance, facility decommissioning and new construction projects.



For more information, please contact:

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WHAT DIFFERENTIATES STRUCTURAL INTEGRITY AND WES

Not only does the Structural Integrity/WES team have necessary resources to properly and comprehensively provide design, procurement, specifications development, fabrication, and installation for new or existing plants, we also have unmatched expertise in the remediation and implementation of repair technologies to ensure safe continued operation of damaged critical components. But most importantly, we are objective, independently owned companies with outstanding reputations for working with our clients to provide the right solution.

We are your Turn Key Solution.