Coastal Inspection Services, Inc.

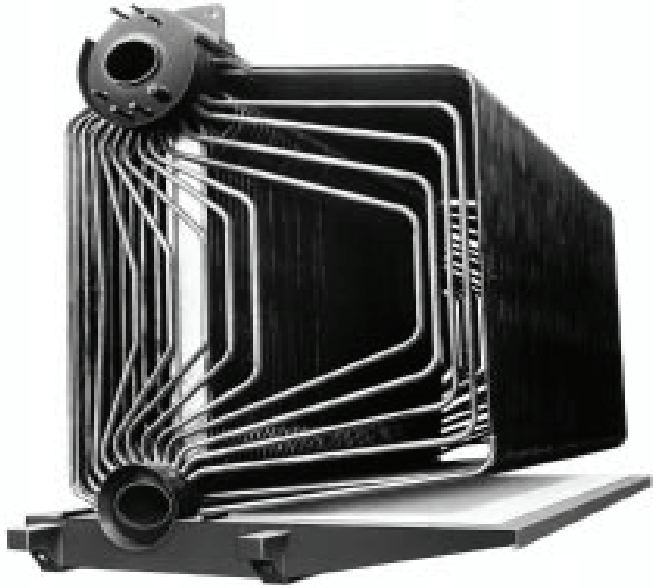
Industrial and Marine Inspection

Company Overview:

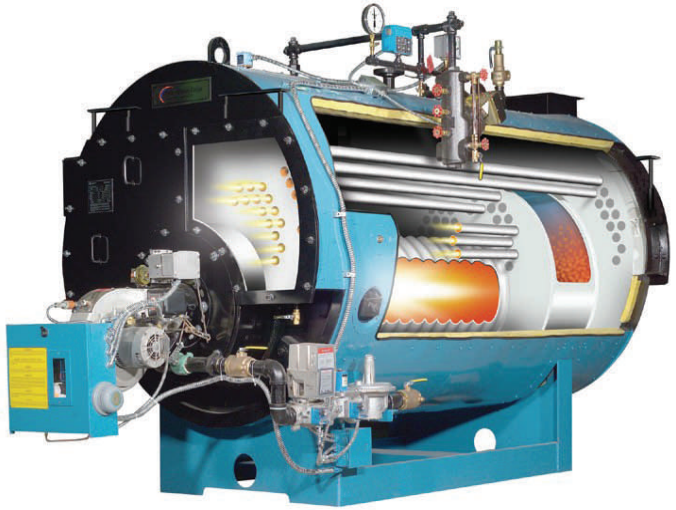
- ***Coastal Inspection Services is a firm that is dedicated to providing Boiler and Pressure Vessel Useful Life Studies to both the Industrial and Federal Government Markets.***

- ***Our Inspection personnel meet the qualification requirements set forth by the National Board of Boiler and Pressure Vessel Inspectors and the VHA Directive 2003-050.***

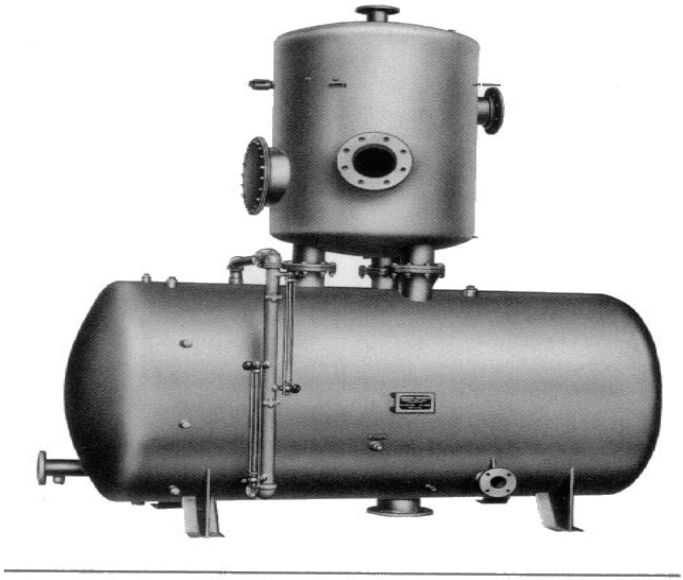
- ***All Nondestructive Testing that is performed is in full compliance with American Society of Nondestructive Testing [ASNT-TC-1A]. ASNT Level III technicians review all test data from each project.***



The complete and accurate assessment of a power boiler is a project that requires an experienced team that is familiar with every aspect of both the operational and design functions of power boiler in each application.



We have inspected every current popular design and manufacturer of both Watertube and Firetube designs. Our database of boilers includes both welded and riveted construction. We maintain most ASME Code years in our Technical Library and can make calculations needed to assess the useful life



Since the catastrophic Deaerator failures of the 1980's both National Board of Boiler and Pressure Vessel Inspectors and the Veterans Administration have required NDT to detect corrosion fatigue cracking.

The inspection of critical weld seams on boilers and pressure vessels can assure the safety of everyone in the power plant. We look forward to discussing any aspect of your particular inspection requirements.

P-800-231-0205 F-617-889-2548
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“Inspection methods correctly applied can reveal problems before failure”

Prof. Robert McMaster
Ohio State University 1976

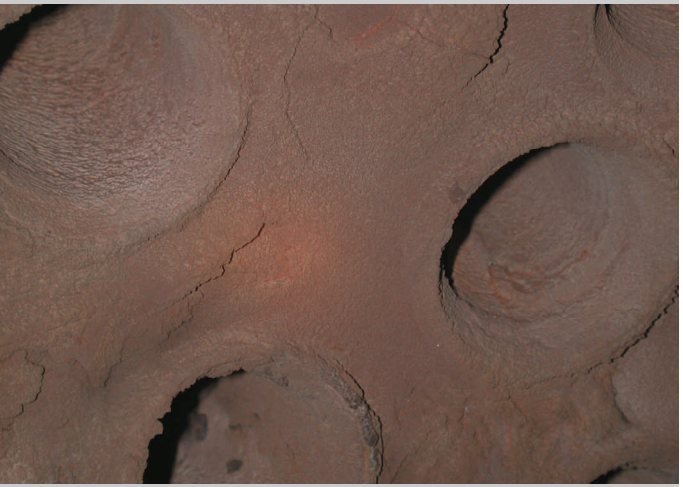
In service boiler or pressure vessel failure is a worse case scenario for every operation and often results in loss of life and extensive property damage. The goal of the every inspection is to prevent these accidents.

We often use visual inspection to select areas that would require further examination by an NDT method. In this case deposits on furnace waterwalls were selected for more detailed examination by Magnetic Particle.

We always select the Nondestructive Test Method that can yield the most relevant information about the condition of a Boiler or Pressure Vessel.

Some of the methods we most often utilize:

- ***Visual Inspection by National Board Qualified Boiler and Pressure Vessel Inspectors.***
- ***Liquid Penetrant Inspection for critical non-ferrous components or welds.***
- ***Magnetic Particle Inspection of ferrous material with the visible or fluorescent method.***
- ***Ultrasonic Wall Thickness and Weld Inspection to determine depletion rates or assess severity of flaws.***
- ***Remote Field Eddy Current to detect volumetric wall loss in generating banks of boilers that use particulate fuels.***



Visual inspection is the most important of all test methods. It is often the most useful tool in recognizing problems in a boiler or pressure vessel. We often supplement visual examination with a videoprobe of tubes.

Magnetic Particle revealed cracks that were attributed to overheating of the tubes from heavy scale deposits. The knowledge gained by experience in Boiler and Pressure Vessel Inspection aids in the choice the test area.

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