



HXIP — HEAT EXCHANGER INSPECTION PROGRAM

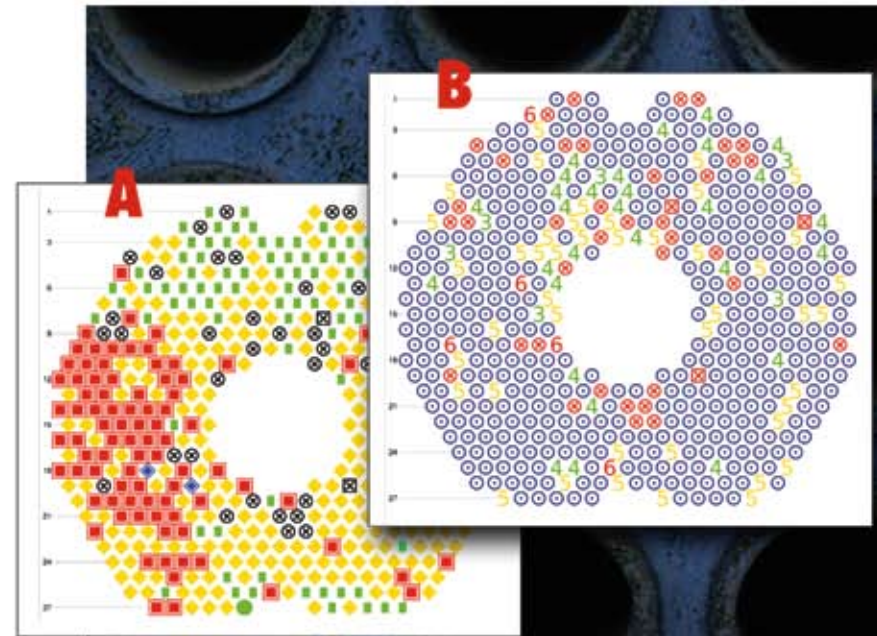
GET OPTIMUM THERMAL EFFICIENCY — AND THE PEACE-OF-MIND FROM KNOWING YOU CAN AVOID MAJOR REPAIR SURPRISES — WITH A PROVEN PROGRAM OF SCHEDULED INSPECTION, ANALYSIS AND PROCESS EVALUATION OF SHELL AND TUBE HEAT EXCHANGERS AND CONDENSERS.



HXIP gives you the inspection data, analysis and forecasting information you need to achieve on-going maximum efficiency, avoid costly shut-downs, and accurately budget for timely preventive maintenance.

- Tube Leak testing identifies tubes that have cracks or holes.
- Eddy Current tube wall inspection reveals tube pitting, cracks, scale buildup and tube wall thinning that can result in lost efficiency, tube fouling and contaminated product.
- Dye Penetrant testing of both upper and lower tubesheets identifies cracks in the plates and in the tubesheet-to-shell weld joints.
- Tube Joint testing of each tube-to-tubesheet joint detects leaks.
- HXIP inspection also helps identify tubes that are deformed, plugged with product or otherwise obstructed.
- Initial and successive HXIP inspections establish benchmarks for predicting future service needs, setting up optimal maintenance intervals, identifying wear patterns and determining useful lifespan.

HXIP also includes a thorough evaluation of process operating conditions, and provides recommendations for maximizing performance and efficiency.



Eddy Current tube wall inspection tests for several indicators of tube degradation, including:

Tube Wall Thinning testing (Chart A) that reveals which tubes show wall loss and to what degree. Similarly, Chart B reports any detected internal pitting, and the severity of pitting, in each tube.

For more details about HXIP, please contact Ray Jobe at RJobe@dupps.com

In addition to HXIP, Dupps offers similar programs for other vital systems within your processing operation, including VIP (Vessel Inspection Program), PIP (Pressor® Inspection Program) and CIP (Centrifuge Inspection Program). Visit www.dupps.com for information about these performance optimization and preventive maintenance programs.



The Dupps Company • Germantown, Ohio • Phone: 937/855-6555
www.dupps.com