



Boiler Inspection Services

Boiler inspections by boiler design engineers

HRST offers a variety of boiler inspection services to address the varying industry needs. We have inspected hundreds of boilers by all major OEMs. The HRST inspectors are uniquely qualified to provide on-the-spot expertise. The inspection report that follows addresses the issues, the root causes and corrective action.

The period just prior to warranty expiration is perhaps the most important time to begin a boiler inspection program. Our third party point of view can identify potential warranty items that can save tens of thousands of dollars or more in future maintenance costs.

Off-line inspections are typically performed annually, but can be done more or less frequently, depending on your circumstances & requirements.

An on-line inspection works well in conjunction with a routine or pre-warranty inspection, and allows the engineer to observe and evaluate conditions that cannot be observed while the boiler is out of service.

Flow-accelerated-corrosion (FAC) inspections are critical to identifying potential failures before they occur. A FAC risk assessment should be performed first to prioritize high-risk areas.



Off-Line Inspection

- ✓ **Check tubes for thinning and wear**
- ✓ **Check boiler components for cracking or mechanical failure**
- ✓ **Quantify and record fouling levels**
- ✓ **Record corrosion levels**
- ✓ **Identify opportunities for efficiency improvements**
- ✓ **Spot check susceptible areas for FAC**

Pre-Warranty Expiration

- ✓ **Establish a baseline for future comparison**
- ✓ **Identify fabrication & design defects with a third party point of view**
- ✓ **The owner saves \$\$\$ in future maintenance costs**

On-Line Inspection

- ✓ **Identify hotspots & casing leaks**
- ✓ **Evaluate expansion joints and casing penetrations**
- ✓ **Observe control stability**
- ✓ **Review operating practices**

FAC Inspection

- ✓ **UT test susceptible areas for thinning**
- ✓ **Visually inspect the waterside for indications of FAC**
- ✓ **Review the water chemistry records**