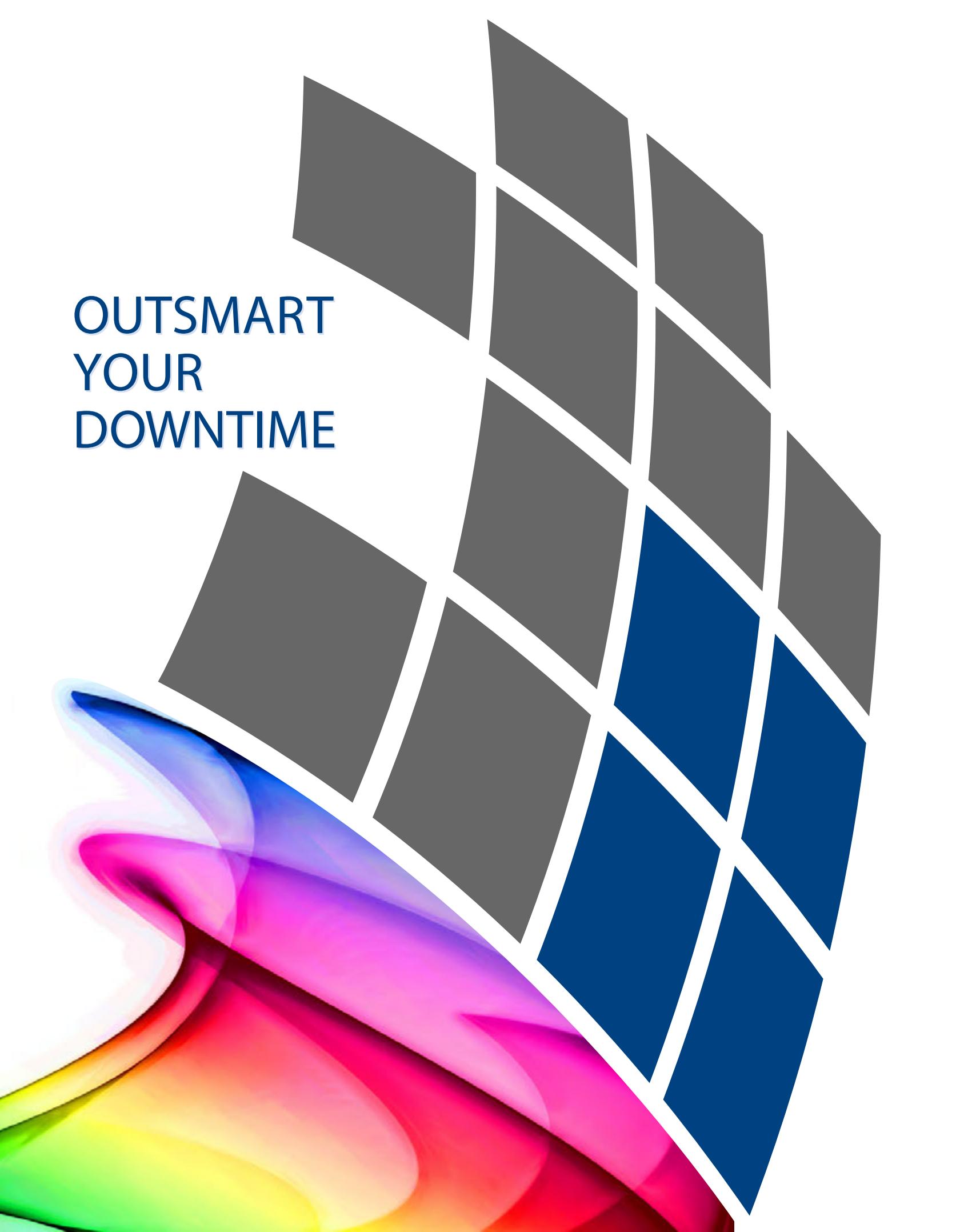


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## ELECTRICAL INFRARED INSPECTION

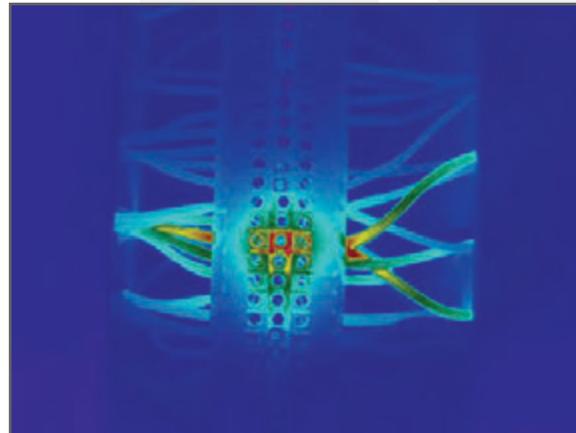
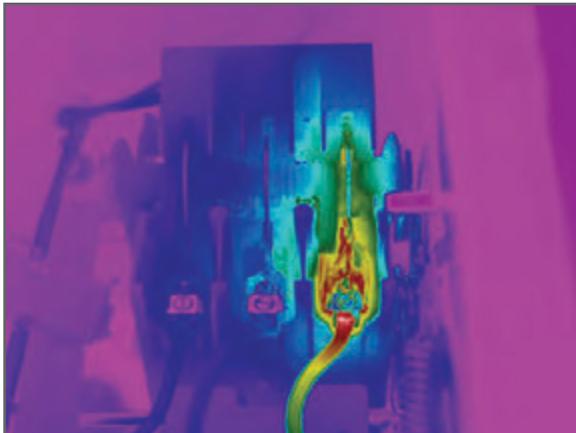
**High temperatures may indicate excessive electrical resistance, failing components, ground faults, short circuits or other common problems in equipment that can lead to expensive or even catastrophic failures.**

Attempting to find and prevent these potential failures with only visual inspections and manual maintenance techniques is a costly, time consuming process that may not locate the underlying problems.

With an electrical infrared inspection, problem areas can be easily pinpointed and repaired prior to failure. DTS has performed literally thousands of electrical system inspections.

We developed one of the largest electrical infrared inspection databases in use today. Our trending software gives you historical data. Access your inspection information from any place, at any time using our secure servers.

We have the proven expertise when it comes to performing electrical system inspections.



**Reduce unscheduled downtime and unplanned maintenance costs and increase energy efficiency, asset utilization, safety, and profits.**

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## PROCESS HEATER TUBE INSPECTION

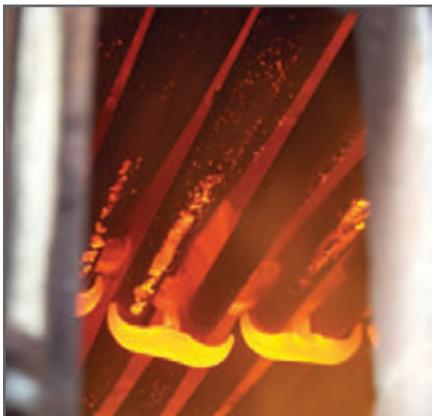
**Due to elevated temperatures, high pressures and metallurgy associated with heater tubes, infrared inspection is the only method available to monitor the entire tube surface while in operation.**

DTS is one of the few infrared inspection groups that have both the equipment and expertise to accurately scan high temperature tubes.

Whether an unbalanced heater, Coking, fouled burner(s) or high production rates; we can help your unit operate more efficiently, safely and for longer periods between outages.

### Steam/Air Decoking

DTS has helped many clients perform safe and efficient steam/air decokes. With our assistance, you can reduce the time required to conduct a complete decoke of your heater tubes, while maintaining a safe maximum temperature for the particular metallurgy of the tube material.



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## INFRARED WINDOW INSTALLATION

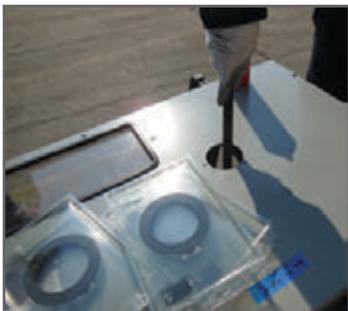
**Proper placement of Infrared Windows is imperative for safe and effective inspections to be performed.**

We offer expertise in choosing the right IR Window for the particular application.

Choosing the correct material (calcium fluoride, sapphire, etc.), shortwave/longwave application, size and number of Infrared Windows can be a daunting task. We can help!

IR Window proper placement and use allow IR inspections to be conducted safely without the need to remove panel covers and expose personnel to potential energy hazards.

The use of Infrared Sightglass / Windows has become more prominent with new NFPA 70E standards and the PPE (personal protective equipment), Limited, Restricted and Prohibited Approach Boundary requirements they recommend. DTS is one of the most experienced infrared companies in the world in proper placement and installation of Infrared Windows.



**DTS Thermographers have extensive experience inspecting through infrared Windows. Let us perform the inspections for you!**

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## MECHANICAL INFRARED INSPECTION

**High temperatures may indicate lack of lubrication or lubrication failure, alignment, overloads, and other common mechanical problems.**

With an infrared inspection, potential problems can be easily pinpointed and repaired prior to failure.

By testing the operation of your systems in 'real time,' our inspections can help you understand the practical impacts of emerging component problems. There is no contact with operating/rotating equipment required and no need to interrupt production, service or manufacturing processes. Our thermographers inspect your equipment under normal loads and operating conditions, so you don't have to disrupt your service and production schedules.

Infrared Inspections are much quicker and less expensive to implement than other inspection techniques. We recommend performing IR Inspection on a more frequent inspection cycle than the other disciplines and utilizing the data collected from the IR Inspection to help direct the efforts of the other inspection techniques. The result is inspection dollar savings and less downtime to perform inspections.



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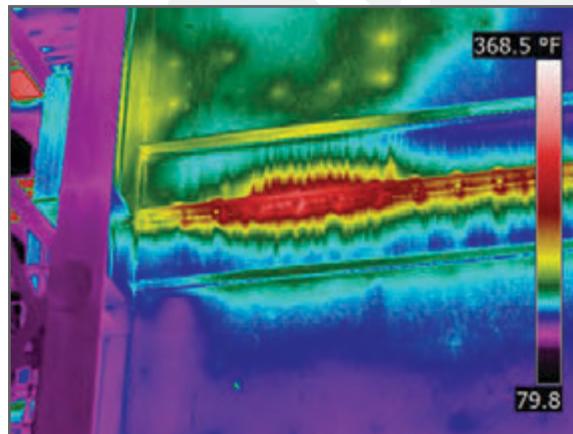
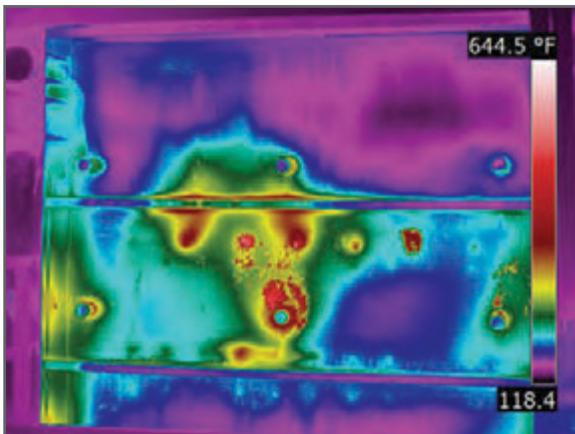


## REFRACTORY INFRARED INSPECTION

**We have proven expertise when it comes to refractory lining inspections. From reaction furnaces to FCCU's.**

We conduct baseline studies of recently erected/repared equipment, maintenance monitoring of operating units and pre-turnaround inspections to help identify the scope of work for your project.

DTS offers you a unique advantage in infrared refractory inspections because we employ former refractory installers/inspectors. We have actually been on the inside of much of the refractory lined equipment that we inspect. This gives us an advantage when determining exactly what the root cause may be when we find a hot spot and qualifies us to make more informed recommendations.



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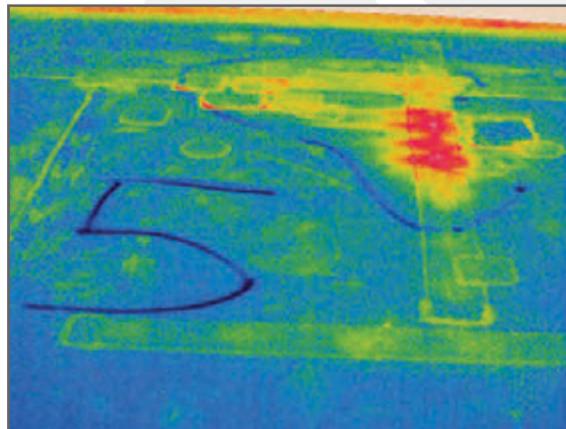
## ROOFING / MOISTURE INTRUSION INSPECTION

**With infrared moisture intrusion inspection, it is possible to pinpoint and document areas of wet insulation from roof leaks on flat roof surfaces, as well as moisture in walls.**

Roof moisture surveys on flat roofs can locate areas with leaks, wet insulation and missing/insufficient insulation. An infrared survey may indicate that roof damage is less than what was originally indicated by a roofing contractor that only performed visual inspections, saving thousands of dollars in roof repairs.

Moisture intrusion in walls, insulation and other building materials may indicate leaking pipes, condensation problems, leaky exterior building material, bad seals, etc. Moisture intrusion may lead to corrosion issues, mold, mildew and reduced structural strength.

If you require third party verification analysis of moisture intrusion, DTS has the experience to deliver. We have worked with various roofing contractors and end users to provide an outside evaluation of roofing systems.



**Stretch your maintenance dollars. Reduce risk from moisture related failures and roofing repairs.**

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