



PROTECT YOUR POWER TODAY

INSPECTION SERVICES

MECHANICAL SERVICES

PROTECTIVE COATINGS



*For a revenue-saving analysis, contact:*

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FAX 904.213.8126  
[www.whertec.com](http://www.whertec.com)

# Power. Protected.





*Founded in 1996.*

*Safety is our first priority.*

*Whertec clients achieve maximum operational utilization.*

*Whertec manpower and equipment can be mobilized anywhere in North America within 24-48 hours.*

*Industry focus: power producers, steel manufacturers, paper mills, bio-energy, and petrochemical refineries.*

**How to save a million dollars.**

*The sirens go off. The lights flash. The boilers shut down.*

*And you lose a fortune in downtime and repairs that can take weeks to complete.*

*That's the price of a shutdown,*

*That's the reason for Whertec.*



## The Protection of Whertec: 1-2-3

- 1. Eliminate weak links.** A detailed inspection of every element diagnoses current or potential root problems associated with your boilers and pressurized vessels. Knowing where your vulnerabilities exist is the first step in protecting you against costly shutdowns.
- 2. Increase productivity.** Whertec services protect your profitability and the productive life of your boilers and pressurized vessels.
- 3. Go beyond compliance.** Quality, integrity and code-compliant service are guaranteed. Moving you to a green-producer that burns less fuel and emits fewer CO<sub>2</sub>, NO<sub>x</sub>, and particulates increases your value to your customers and the environment.

# The Whertec Difference.

*Whertec is different because of innovative, customized service.*

*Whertec is reliable because we leave nothing to chance. Whether we provide services at your site or from our workshop, the commitment to excellence is the same. You can rely on meticulous project planning, management and engineering services, and high-tech inspections. Whertec's thermal sprays, mechanical repairs and all other services prolong boiler life, improve performance, and save energy.*

*Whertec is growing because we are reliable.*

## Project Management & Engineering

Nothing outperforms the best. And we're the industry's best in planning, logistics, budgeting, safety, scheduling, timelines, subcontractors, materials and manpower.



## Inspection Services

Whertec's method of testing and maintenance addresses problems before they become shutdowns that affect your revenue and reputation, including:

### CERTIFIED INSPECTION SERVICES

- » Scaffolding
- » Magnetic Lift Off
- » Magnetic Particle Testing
- » Laboratory Services
- » Ultrasonic
- » Visual Wear Analysis
- » Dye Penetrant
- » Failure Analysis

## Mechanical Services

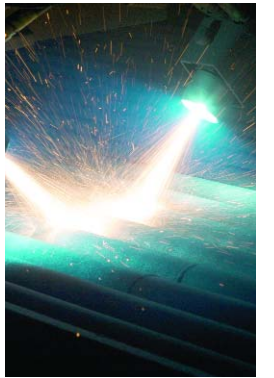
The Whertec Mechanical division specializes in the prevention and repair of corrosion and erosion. We are the most experienced providers in the industry, offering turnkey maintenance and weld repair options. Our safety record is in compliance with industry regulations. You can rely on immediate response, on-budget, on-time repairs that result in less downtime and greater profitability.



## Whertec Protective Coatings

*Our most unique and important products include a family of customized coatings that we manufacture for each customer application.*

*These diverse products include metalized coatings, combination metal and ceramic coatings, and the proprietary Tube Armor™ lineup, which is a liquid ceramic product.*



### CERAMIC COATINGS

Tubes took a beating until we invented Tube Armor™ or, as we call it, our triple-play spray: Save money. Reduce Emissions. Increase reliability and profit.

Tube Armor™ thermal spray coatings provide different beneficial characteristics and properties and allow for quick, visual detection of high-wear problem areas.

These proprietary ceramic coatings protect your systems at minimum cost and ensure maximum uptime and profitability. The pore free coatings improve reliability for boilers and pressure vessels.

The applied ceramic elements bond to the metal substrate to form an abrasion and corrosion resistant surface that is non-reactive, non-wetting, and thermal shock resistant. The technology is tested and proven in circulating fluidized bed boilers, pulverized coal-fired boilers, waste-to-energy boilers, and Waste Heat units that retard erosion and corrosion. It is your best defense against shutdowns, inefficiency and high fuel costs.



### THERMAL SPRAYED COATINGS

Whertec Metal coatings reduce thermal gradients, save on energy consumption, and decrease downtime and maintenance.

#### HVOF – (high-velocity oxy-fuel)

This on-site process is especially effective with high-performance powder coatings such as tungsten carbide, chrome carbide, super alloys, and inter-metallic materials. It gives density, hardness, bond strength, and more protection per thousandth of an inch, significantly outperforming other methods of application.

#### TWAS – (twin-wire arc spray) & HVHD-ARC

This arc spray technology offers quality and economy with on-site application of corrosion-and-wear-resistant coatings of nickel chrome, INCONEL®, HASTALLOY®, and stainless steel materials.

#### HVHD-ARC (high velocity high density arc spray)

This spray method provides a denser and less porous coating than TWAS. HVHD maintains the speed of application of the twin-wire process with improved corrosion and erosion resistance similar to HVOF.

#### SPRAY & FUSE COATINGS

Similar to brazing technology, fused coatings provide the ease of a thermal spray with the tough, high-wear characteristics of a hard-face weld overlay. By using a boron and silicon spray as a flux, this material makes a strong metallurgical bond when exposed to high temperatures in the boiler.





# The Power of WHERTEC.

The Whertec difference begins with commitment. Your success is our success. Our reputation depends on our ability to protect and enhance yours. To ensure both, we only employ well-experienced, qualified, and certified experts who work closely with dedicated management teams. Whertec has nearly 100 professionals on staff, and we're constantly adding new talent in order to meet customer demand.

**The WHERTEC method of service** is the most comprehensive you will find. Once you are a Whertec customer, we schedule and perform regular inspections, diagnostics, maintenance and repairs. We always meet your deadlines and performance standards. We take the pressure off by keeping the pressure on.

## 50 STATES AND CANADA, WE SERVICE THE BEST

- |                              |  |
|------------------------------|--|
| AECON                        | International Paper                    |
| AES Corporation              | Lincoln Pulp & Paper                   |
| Alabama Power                | NRG Energy                             |
| Algoma Steel                 | Ontario Power                          |
| Allegheny Power              | P. H. Glatfelter                       |
| American Bituminous          | Pacific Gas & Electric (PG&E)          |
| Archer Daniels Midland (ADM) | Packaging Corporation of America (PCA) |
| Arizona Chemical             | Piney Creek L. P.                      |
| Bunge                        | PPL Corporation                        |
| Clearwater Paper             | QIT-Fer et Titane                      |
| Cogentrix                    | Sappi Fine Paper                       |
| Constellation Energy         | Smurfit Stone                          |
| Covanta Energy Corporation   | Sonoco                                 |
| Dominion Power               | Southern Company                       |
| DTE Energy                   | Tate & Lyle                            |
| Duke Energy                  | U. S. Steel                            |
| Epcor Utilities Inc          | Weyerhaeuser Corporation (Weyco)       |
| Evergreen Packaging Inc      | Woodland Biomass                       |
| Georgia Pacific              |  |

**WHERTEC protects your power.**

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**The Reliability Experts**

### Industry Specializations:

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POWER GENERATION  
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PULP & PAPER  
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STEELMAKING  
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REFINERY, PETROCHEMICAL & CHEMICAL  
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