

# \$1,000 FIELD SERVICE DAY

*One day with an IPS Field Service Specialist and their toolbox*

## NORTH AMERICAN COVERAGE



### UNITED STATES [www.ips.us](http://www.ips.us)

|                    |              |
|--------------------|--------------|
| Beaumont, TX       | 888-868-9475 |
| Birmingham, AL     | 800-978-2212 |
| Chicago, IL        | 800-978-4559 |
| Cincinnati, OH     | 800-998-8447 |
| Cleveland, OH      | 800-433-7801 |
| Corpus Christi, TX | 361-459-2600 |
| Denver, CO         | 800-448-0899 |
| Detroit, MI        | 800-992-9466 |
| Des Moines, IA     | 515-608-8215 |
| Dothan, AL         | 334-699-8080 |
| Erie, PA           | 724-479-9066 |
| Evansville, IN     | 812-665-4400 |
| Folcroft, PA       | 484-498-4848 |
| Houston, TX        | 800-221-3698 |
| Indiana, PA        | 800-537-0097 |
| Lake Benton, MN    | 507-368-4015 |
| Litchfield, MN     | 888-694-6200 |
| Philadelphia, PA   | 800-451-5718 |
| Portland, OR       | 800-366-4951 |
| Rock Hill, SC      | 800-868-3702 |
| Shreveport, LA     | 800-366-6030 |
| Sulphur, LA        | 409-833-9477 |
| Sweetwater, TX     | 325-933-4274 |
| Washington, PA     | 800-441-2553 |

### CANADA [www.ips.ca](http://www.ips.ca)

|               |              |
|---------------|--------------|
| Regina, SK    | 306-586-0000 |
| Saskatoon, SK | 306-651-0400 |
| Winnipeg, MB  | 204-237-6066 |



*IPS Field Service Technician uses a PdMA MCEmax™ tester to analyze a pump motor for rotor, stator and air gap anomalies by performing a Rotor Influence Check (RIC). The RIC measures phase to phase inductance values captured at a series of rotor positions.*

### The IPS \$1,000 Day

The \$1,000 Day gives you one day with an IPS Field Service Specialist. The specialist will show up at your designated location with the IPS Field Service Toolbox, the industry's most comprehensive set of diagnostic, predictive and preventative technologies. The service is backed by an engineering organization with more than 100 years experience solving customer's rotating equipment issues.

Depending on your maintenance needs, we can dial in on key rotating assets – laser alignment, vibration, field balance, cleaning, thermography, or run on-line and off-line electrical tests with full documentation.

The point is, IPS offers a single source combination of experience and technologies, and for one day, it is at your disposal for only \$1,000. It gives you a convenient, low-risk way to assess the health of your plant's assets. All of these services are available as part of a more comprehensive ongoing maintenance and repair plan.

- *Dedicated, experienced field service specialists*
- *IPS service toolbox provides single-source predictive and preventive services for:*
  - » *Motors*
  - » *Generators*
  - » *Pumps*
  - » *Compressors*
  - » *Gearboxes*
  - » *Fans*
  - » *Motor Control Centers*
  - » *Switchgear*
  - » *Transformers*
- *Documented recommendations*
- *Seamless integration with in-house reliability programs*
  - » *Top-line assessments*
  - » *Engineering consulting*



*IPS Field Service Specialists can perform maintenance assessments to increase the reliability of your critical assets.*

### The IPS \$1,000 Day

*Available to plants within 150 miles of the IPS Service Center.*

*The IPS price includes travel time portal to portal—a straight time-only day that starts at 7:30AM.*

*Additional time and services available upon request.*

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*IPS Field Service Specialists offer years of experience in your industry. Once you've decided what you want to focus on, they'll select diagnostics and technologies from the IPS Field Service toolbox.*

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Greenville, SC  
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Indiana, PA  
Lake Benton, MN  
Litchfield, MN  
Philadelphia, PA  
Portland, OR  
Rock Hill, SC  
Shreveport, LA  
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Sweetwater, TX  
Washington, PA

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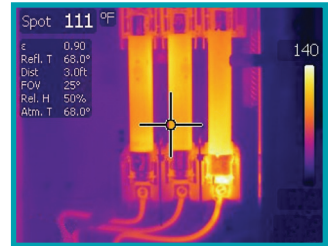
### Vibration Analysis

IPS offers vibration analysis for trending and analysis of vibration signatures, to rate asset conditions, determine corrective actions and provide more precise maintenance scheduling. Our tests reveal misaligned or bent shafts, worn or broken gears, and faulty ball or sleeve bearings. We can repair or replace these components to reduce or eliminate unplanned downtime. The end result is improved reliability and increased MTBF, fully documented in comprehensive reports.



### Thermography

We use infrared thermography to locate hot spots indicating mechanical or electrical problems or defects. IPS field service specialists perform thermography while your equipment is operating, to look for bearing and coupling wear, faulty connections, insulation problems or improper grounding, and unbalanced or overloaded circuits. Once we've analyzed your results, we provide a complete report detailing our findings and recommending corrective actions.



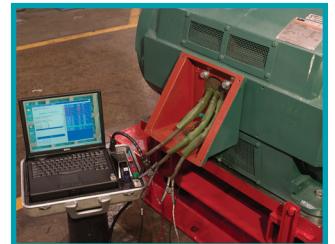
### Laser Alignment

Misaligned shafts or couplings increase heat, vibration and power consumption, eventually resulting in failure or connected equipment issues. Rather than wait until your assets break down, we recommend laser alignment. It extends bearing life, reduces power consumption, improves reliability and increases MTBF, all with minimal work disruption and documented in a comprehensive, customized report.



### Motor Circuit Evaluation

Electrical faults cause nearly 25% of all motor failures. Our MCE diagnostics reveal a wide range of stator and rotor problems, including turn-to-turn and phase-to-phase insulation degradation, rotor bar and end ring integrity, dielectric absorption and surface leakage. MCE testing is non-intrusive and non-disruptive—IPS field service specialists can evaluate your motors during operation, preparing documented assessments that define your repair priorities and coordinate with scheduled outages.



### Cryogenic "dry ice" cleaning

We use cryogenic cleaning to remove accumulated dirt, contaminants and insulation damage from your motors, generators and mechanical components, as CO<sub>2</sub> pellets offer better results than other blast media and eliminate waste disposal. These pellets are non-abrasive, non-toxic and don't conduct electricity, for efficient, on-site cleaning that minimizes downtime.



### Other tools in the IPS Field Service toolbox

- On- and off-line electrical tests
- Ultrasonic testing
- Root Cause Failure Modal Analysis
- Motor, gearbox and pump storage programs
- ABB Life Expectancy Analysis Program® (LEAP)
- Drives diagnostics and EDM detection
- Embedded service technicians
- Training programs and assessments
- Equipment rigging, removal, installation and startup
- Oil analysis