



## Regardless of the emergency, IPS has the experience and resources to get you up and running.

- **Pre-Disaster Planning** – IPS works with you to perform an Installed Base Evaluation (IBE) to identify your facilities electrical and mechanical equipment. An accurate, current and complete database with all necessary equipment data is vital for recovery.
- **Post-Disaster Assessment** – On-site evaluation & assessment of the damage to electrical and mechanical equipment is reported and documented.
- **Identify Recovery Solution** – Using the assessment report, we will work with you to plan a solution that considers all IPS resources to minimize your time to return to production.
- **Prioritize and Manage Resources** – With the assessment and recovery solution identified, we manage the availability of IPS resources to your individual priorities and sequence of events.
- **Implement Solution** – Implement appropriate solution to fit your business needs and minimize downtime.

For more information, contact your local IPS sales representative or visit [www.ips.us](http://www.ips.us).

## Disaster Recovery Teams

- ✓ Fully-equipped with tools, trucks, fuel, and living quarters
- ✓ Equipment removal & installation
- ✓ Electric motor repair
- ✓ Mechanical repair & machining
- ✓ Extended support and resources across North America
- ✓ Complete project management



*Fully-equipped field service teams*

## REPAIR SERVICES

### Motor and Generator Repair

- > **In-shop capabilities**
  - ✓ AC up to 15,000 VAC or 80,000+ HP
  - ✓ DC up to 1,000 VDC or 10,000+ HP
- > **On-site capabilities**
  - ✓ AC > 15,000 VAC or 80,000 HP
  - ✓ DC > 1,000 VDC or 10,000 HP
- > **14 ft. VPI—100% solids epoxy resin**
- > **145-ton lifting capacity**
- > **Dynamic balance stand up to 100,000 lbs.**
- > **UL® and CSA® certification**
- > **Stator and rotor restacking**
- > **AC and DC motor redesign**

### Rewind Technologies

- > **Premium VPI Insulation Systems**
  - ✓ MegaSeal™ HV (up to 15 kV) with 5-year warranty
  - ✓ PowerSeal™ MV (up to 7.2 kV) with 5-year warranty
- > **IntegraCoil™ B-stage stator coils up to 15 kV**

### Authorized Warranty Repair

- |                            |                           |
|----------------------------|---------------------------|
| > <b>ABB</b>               | > <b>Kato Engineering</b> |
| > <b>ATB Morley</b>        | > <b>Siemens</b>          |
| > <b>Baldor - Reliance</b> | > <b>Toshiba</b>          |
| > <b>ELIN</b>              | > <b>WEG</b>              |

### Mechanical Repair

- > Gearboxes
- > Blowers
- > Compressors
- > Crushers
- > Pumps – centrifugal/submersible/vacuum
- > Gear motor, clutches, brakes
- > Fans
- > Heat exchangers
- > Ship shafts and rudders

### Motor and Generator Testing

- > Full load testing up to 4,500 HP
- > No load testing up to 37,500 HP
- > Run testing up to 15,000 VAC/1,000 VDC
- > Motor Circuit Evaluation (MCE)
- > Doble and Partial Discharge
- > IEEE 1776-2008 Water Immersion
- > IEEE 1043 Voltage Endurance
- > Computerized Core Loss up to 500kVA
- > Electromagnetic Core Imperfection Detection (EL CID)
- > Vibration analysis (Spectral)
- > Thermography
- > Polarization Index Test
- > Resistivity, Hi-Pot (AC & DC), Megger®, Surge test

## FIELD SERVICES

### On-site Commissioning and Repair

- > Equipment installation/removal
- > Emergency and outage support
- > Mechanical machining and repair
- > AC & DC motor and generator repair
- > Stator and armature rewinding

### Preventive Maintenance

- > Precision laser alignment
- > Cryogenic “dry ice” cleaning
- > On-site balancing
- > Commutator and slip ring service
- > Filter replacements
- > Lubrication programs
- > Equipment inspections

### Predictive Maintenance

- > Vibration and modal analysis
- > Motor Circuit Evaluation (MCE)
- > Doble testing
- > Partial discharge testing
- > Electromagnetic Core Imperfection Detection (EL CID)
- > Operational Deflection Mode Shape (ODMS)
- > Finite Element Analysis (FEA) software
- > Synchronous rotor diagnostics
- > Current analysis trending
- > Thermography
- > Ultrasonic testing
- > Oil analysis

## DISTRIBUTION

- ABB**
- Baldor-Reliance**
- EM**
- GE**
- Leeson**
- Marathon Electric**
- Siemens**
- TECO Westinghouse**
- Toshiba**
- US Electric Motors**
- WEG**