Switchgear maintenance, testing and repair *(1000V and Below)*

IPS has the people and technology for the job, supporting plant reliability engineers with single-source capabilities that streamline vendor management.

Our technicians test, service and repair all major OEM equipment and discontinued breakers. We combine work on power distribution protection and management with service and repair for VFDs, electric motors and generators.

Low-voltage breaker testing

Our field service technicians follow International Electrical Testing Association (NETA) guidelines for on-site low-voltage breaker testing. Tests include:

- Power distribution system inspections
- Visual inspections for signs of age — metal fatigue, loose connections and parts damage
- Insulation resistance — Megger at 1000V phase to ground and phase to phase for air circuit breakers
- Contact resistance — testing with digital low-resistance ohmmeter (DLRO) with breaker shut
- Electrical operation — test breakers equipped with charging spring motors for proper function, verifying remote shut and open features
- Primary and secondary injection testing — test current trip functions during startups and maintenance using OEM trip curves

Maintenance, testing and repair for switchgear from these OEMs:

- GE
- ABB
- Square D
- Cutler Hammer
- Westinghouse
- Eaton
- ITE
- Siemens
- Merlin Gerin
- Schneider

Streamline vendor management, improve safety and increase plant uptime.

For more information about servo motor services, scan the code:

Switchgear conversion and upgrades

IPS provides switchgear conversion and repair for plants with old or damaged breakers. Our field service technicians handle this on-site when possible. We also provide in-house repair services for parts upgrades and refurbishment.

IPS Charleston maintains a dedicated repair shop for switchgear conversion. Our skilled repair technicians provide the following services:

- **Conversions** — Convert all breakers with dash pot trip units to Utility Relay Company AC Pro kits (new and discontinued breakers)
- **Silver plating** — In-house silver plating for contact and bus connections
- **Replacement parts for discontinued breakers** — Source parts from manufacturers or authorized PEARL dealers

We tear down circuit breakers and rebuild them, replacing faulty parts and cleaning, lubricating and testing before shipping.

The IPS advantage

IPS supports plant reliability with veteran technicians, using state-of-the art equipment and backed by our engineering corps. Make sure your power distribution and management delivers the reliability you expect from IPS-serviced motors, generators and mechanical components.

For a complete listing of service center locations, scan the code:

Respond.
Rethink.
Resolve.

100105-FL
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