



Gas Circuit Breaker Division



Hands-On Service and Solutions



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24-Hour On-Call Support

MEPPI provides our customers with 24-hour emergency call center service, ready and waiting to support your needs 7 days a week, 365 days a year. Don't hesitate to call us at 866.390.6487.



Mitsubishi Electric Power Products, Inc. (MEPPI) is committed to providing reliable products and services that meet customer requirements and exceed expectations through superior quality and continuous improvement.

Thousands of MEPPI circuit breakers rated at transmission voltages through 550kV have been installed and are operating reliably on T&D systems worldwide. MEPPI has recently expanded our product line into distribution voltages and has been supporting these vacuum breaker installations and operations since 2005.



Performance

The Mitsubishi Electric Power Products, Inc. (MEPPI) breakers reflect our commitment to supply power circuit breakers with extended service lives that meet or exceed the most demanding applications for interrupting, insulating, and current carrying capabilities. The design and performance of all MEPPI breakers are fully verified in accordance with ANSI C.37 and IEC 62271-100 and by production and life tests that subject our breakers to conditions that are considerably more comprehensive and severe than those required by standards.

These tests have confirmed the safety, ruggedness and reliability of MEPPI breakers. Customers also report extraordinarily low cost of ownership based on exceptional reliability, application flexibility, safety, minimal maintenance requirements, and ease of maintenance.

Facilities

MEPPI's manufacturing facilities are located in Warrendale, Pennsylvania, a suburb of Pittsburgh. This location also serves as the center for product service and training.

The MEPPI factories are state-of-the-art facilities designed to meet the specialized needs of our customers. The more recent additions to our campus include the MEPPI distribution breaker factory, introduced in 2004, and an expansion of our existing high voltage breaker factory in 2008.

MEPPI factories provide next-level maintenance, repair, and engineering capabilities with an expanding core of expertise and experience that spans all MEPPI transmission and distribution breaker types.





Installation & Maintenance

All MEPPi breakers operate with minimal maintenance requirements. All MEPPi breakers are fully assembled, pressurized, and tested to ANSI standards as well as strict MEPPi standards prior to shipment. Each breaker is shipped with 5 psig of nitrogen or SF₆ gas. Positive pressure shipments contribute to an easy installation process. With the exception of the 550kV breaker and some 362kV breakers, MEPPi breakers ship with the bushings installed. As a result, installations are accomplished easily and completed rapidly. Please feel free to contact the MEPPi service group for further discussion of independent pole breaker options that will further enable ease of installation.

A proper program of inspection and maintenance will further assure the long-term reliability of MEPPi breakers. Inspection requirements will vary depending on the length of time in service, severity, and frequency of operation. Please refer to your MEPPi instruction book for inspection and maintenance details.

- **Mechanism Maintenance**

With the exception of the 550kV breaker, all current MEPPi production breakers utilize spring-spring mechanisms with little or no maintenance requirements. For example, MEPPi recommends that the helical spring mechanism (BM-1) be lubricated every six years during normal inspections. The torsion spring mechanism

(BM-2), however, requires absolutely no maintenance for the life of the mechanism.

MEPPi's pneumatic-spring mechanism (AM-25, AM-32, AM-38) requirements are limited to a 6-year routine inspection (R6 lubrication and rubber seal replacement) and a 12-year routine and/or special inspection (R12 / "S" lubrication and control valve assembly replacement). Please refer to the maintenance section of your MEPPi instruction book and call the MEPPi service group for R6, R12 or "S" maintenance kits, when necessary.

- **Interrupter Maintenance**

Critical interrupter components (stationary and moving arcing contacts and nozzles) need only be inspected after 2000 operations at rated load current, or 10 to 20 full fault current interruptions based on breaker type. MEPPi interrupter contacts and nozzles are easily removed by simply unbolting the tank inspection cover. Bushing removal is NOT required. Unlike other designs, there are no interrupter valves, seal rings, solid insulation, or screens to inspect. Please refer to the maintenance section of your MEPPi instruction book and call the MEPPi service group for interrupter maintenance kits, when necessary.

Spare & Emergency Parts

MEPPi has an extensive quantity of circuit breaker component parts in inventory and consistently flowing through our factory to ensure ready availability to our customers.





MEPPI also maintains a designated Spare Parts Warehouse to support part needs for equipment outside of current production. The MEPPI warehousing system utilizes automated central warehousing, tracking, and purchasing management of customers' "most often needed" and specialty replacement parts. Please contact the MEPPI service group for a listing of recommended spare parts for your breaker type.

Services

Field Services — Wherever you are, MEPPI can bring comprehensive, responsive and qualified service direct to your site. Whether it's turnkey planned installations, turnkey removal and replacement programs, routine maintenance support, field troubleshooting, or emergency outage support, our service engineers and representatives provide the services you need when you need them. The MEPPI service group helps our customers minimize down time and lost productivity while accelerating a reliable return to service.

The MEPPI service group will:

- Quote, Schedule and Manage Turnkey Services at Customer Sites
- Quote, Schedule, and Manage all Field Service Requests
- Quote, Expedite, and Coordinate the Shipment of Spare Parts
- Track all Open Customer Field Requests to Closure

Extended Field Service Programs — Consistent quality of planned and predictive maintenance over time is essential to maintaining superior equipment availability, performance, and lifetime ownership cost. MEPPI can provide tailored, multiyear service agreements providing flexible service scope and cost-structures to suit all customer needs.

Training

The MEPPI service group provides extensive training for all dead tank, live tank, and synchronous switching breakers. In 2009, the International Association for Continuing Education and Training (IACET) officially awarded the MEPPI service group Authorized Provider status. As an Authorized Provider, MEPPI may now award IACET Continuing Education Units (CEUs) as part of our training programs. IACET certification further demonstrates to MEPPI customers that our training programs are benchmarked against the best in class. MEPPI customers can continue to have complete confidence in our ability to deliver training programs of the highest quality.

Training sessions for customers involve both classroom and hands-on instruction, and can be conducted at the MEPPI factory or at our customer sites. Contact the MEPPI service group today to schedule training that will meet your personnel needs.

