

Installation and Commissioning Control Systems Maintenance and Servicing



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Australia – Brisbane
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Experience, expertise and equipment



Commissioning tests on protection relay fitted to LMVP switchboard.



Servicing a 630 amp oil circuit-breaker.

Installation and commissioning of high voltage switchgear

RPS Switchgear offers a complete package of installation and commissioning client's switchgear. This service is available for most makes of switchgear. This service is also available as installation only. RPS Switchgear has the experience, expertise and equipment to meet all your installation and commissioning requirements.

Installation

- Complete switchgear installation to manufacturer's requirements.
- High voltage pressure tests.
- Millivolt drop (ducter) tests.
- Full mechanical checks.
- Secondary wiring insulation tests.

Commissioning

- Full functional tests on protection and control schemes.
- Primary and secondary injection tests on all current transformers, voltage transformers and protection relays.
- Complete set of test results of all work carried out during the commissioning process.

Protection Upgrades

RPS Switchgear offers protection upgrades.

- Change existing induction disc relays for numeric processor based relays.
- New current transformers to accommodate increased system requirements.
- Protection upgrades can be undertaken at the same time as or independently of retrofit upgrades.

Control Systems

RPS Switchgear offers a complete range of instrumentation and control systems. Using hardware and software packages from the world's leading suppliers, RPS Switchgear can provide PLC control systems incorporating many features and benefits.

- Remote monitoring of digital, analogue and pulse rates.
- Remote analogue and digital outputs.
- Networked communications combining radio and modems.
- Savings in personnel costs by using SCADA systems to monitor and switch remote sites.
- Cost effective design for small systems.
- Readily upgraded for system growth.
- IMS time stamping of events.
- Switchgear or relay panel mounted options.
- UHF and VHF radios up to 25W.
- Battery backed PSU option.
- Dual communications option.
- Dual CPU option.
- Ethernet and Modbus options.



Maintenance and Servicing



Portable 60 kV oil dielectric strength test set.



Reyrolle Type C gear still in service. This range of switchgear was manufactured from 1906 to 1970.

RPS Switchgear has a wealth of experience in many different types of electrical switchgear. This experience is available to customers through service plans designed to meet their specific needs. RPS Switchgear service plans deliver an effective economic alternative to customers who must continue to provide utility services in a volatile industry environment. RPS Switchgear offers three classes of service:

Service Repairs

RPS Switchgear provides a service to repair equipment which has failed in service.

- Access to the RPS Switchgear experience across a wide range of equipment.
- Repair solutions which minimise downtime.
- Top quality service.

Preventative Maintenance

RPS Switchgear offers preventative maintenance programmes, with pre-planned schedules that operate on a regular basis.

- Downtime can be minimised, with servicing structured to meet individual client needs.
- By using the experienced RPS Switchgear service team for routine maintenance, customers can better utilise personnel into other areas of their business.
- A full package of test reports provided at the completion of each contract. The reports are updated at each subsequent scheduled maintenance.

Scheduled Maintenance

RPS Switchgear will tailor site-specific or equipment-specific maintenance projects.

Scheduled maintenance contracts may include:

- Full circuit-breaker service.
- Oil dielectric strength tests on site.
- Further off site analysis if required.
- Oil replacement.
- Secondary injection tests on protection and auxiliary relays.
- Functional tests on control schemes, where possible.
- Insulation resistance tests.
- Partial discharge monitoring (refer to our separate brochure).



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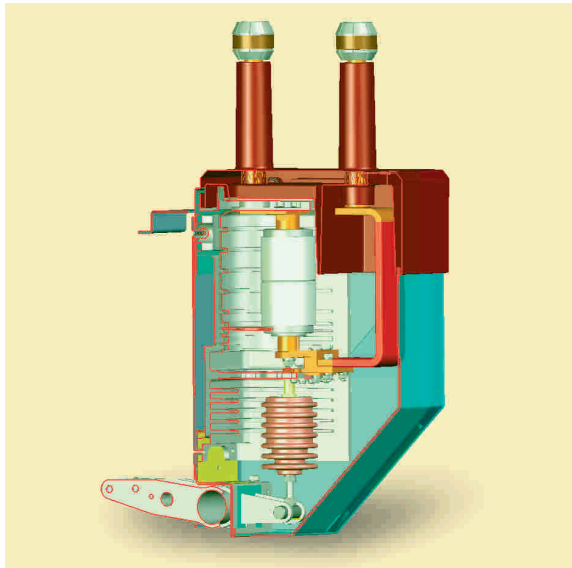
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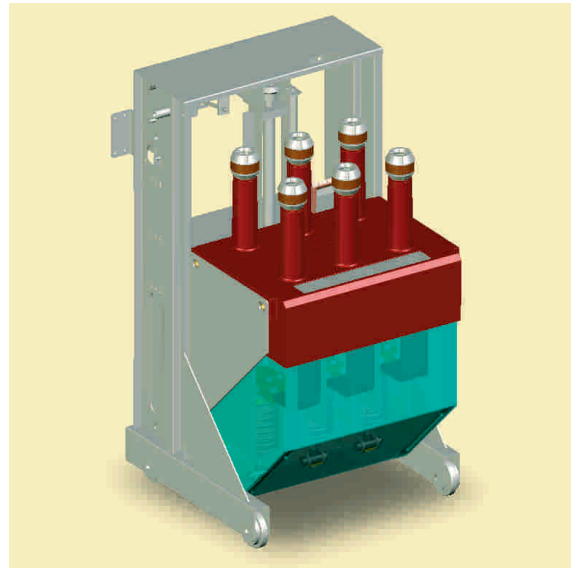
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RPS Switchgear Install & Comm Jan08. This brochure is intended as a guide only and the latest data should be obtained from our sales department.

Retrofitting



Cross-sectional illustration of RPM Series circuit breaker



RPM Series Circuit Breaker Retrofit Solution

RPS Switchgear offers a retrofitting service to upgrade your LMT, LSR, LMR and LMVP switchgear with the latest RPM vacuum circuit-breaker. Retrofitting with a RPS Switchgear package has many advantages over replacing an existing LMT switchboard.

- Major financial savings for the latest vacuum circuit-breaker technology.
- Minimal disruption to the medium or high voltage network.
- Stand alone retrofit package or complete upgrade including new protection relays or new SCADA system, installed onto existing switchgear.

RPS Switchgear's retrofit packages provide a quality, financially viable alternative to increase the life of your existing switchgear, with very little disruption to the medium or high voltage network while the work is being carried out.

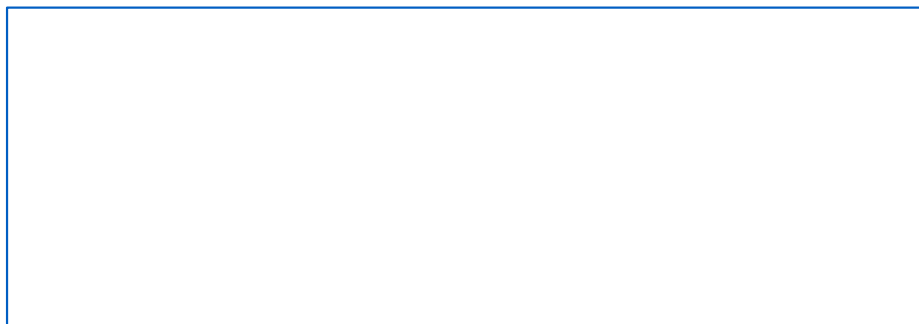
LMVP Vacuum Circuit-breakers

RPS Switchgear's vacuum circuit-breaker provides:

- Low maintenance costs.
- Ability to handle a large number of fault operations.
- Vertical isolation for safe circuit-breaker handling.
- Integral earthing through circuit-breaker transfer.

- A reliable mechanism based on the well proven LMT design.
- Quick change of vacuum interrupters.
- Reliable operation in earthquakes confirmed by seismic testing.
- Cast resin housing with substantial insulation between phases for greater safety and protection of the circuit-breaker and panel.

Please refer to your local representative



RPS Switchgear Ltd

Marketing and distribution extend throughout Australia, New Zealand, Europe, Africa, South East Asia, Hong Kong and China. Manufacturing operations are complemented by a comprehensive range of customer services throughout Australia, New Zealand, Europe, Africa, South East Asia, Hong Kong and China.

