

ABB Power Care – 5. Delivered Maintenance Services

5.3 Full switchgear services

ABB Low Voltage Service provides our customers with full switchgear services to maximize reliability through maintenance, troubleshooting and preventive actions on the complete system.

Full Switchgear Engineering Service is the highest level of Delivered Maintenance Services, where ABB Low Voltage Service provides engineering expertise and manpower for condition and time based preventive maintenance on the customer's low voltage systems and equipment covered in the scope of the ABB Power Care agreement.

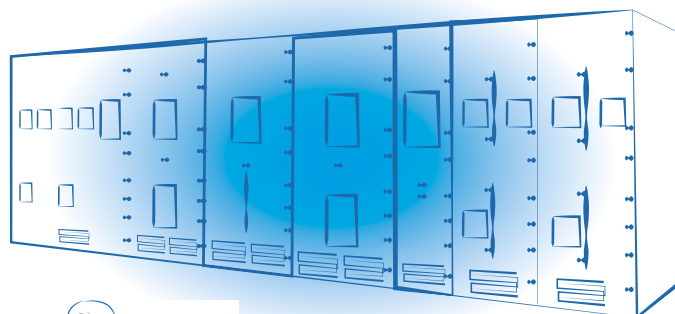
ABB partners with our customers to deliver the best on-site maintenance to restore electrical equipment to their required original functionalities. This greatly reduces the probabilities of shutdowns.

The preventive actions on the systems include in-depth checks, hardware replacements, firmware upgrades, sensor calibrations, re-greasing of mechanical parts, functional tests and troubleshooting where required. These are carried out on electrical equipment where applicable. The following are the electrical components commonly included in this service:

- Circuit breakers
- Protection relays on circuit breakers
- Softstarters
- Control circuits and auxiliary equipment
- Metering solutions
- Operating mechanisms
- Current and voltage transformers.

Services for the other parts of the switchgear include the following:

- **bus bars and cables** – torque checks
- **power contacts of withdrawable modules** – checking of contact pressure, re-lubrication
- **switchgear structures, inner separations and outer covers and doors** - replacements, repair, troubleshooting and subsequent functional testing.



The condition based preventive actions are pre-defined by other ABB Power Care services such as Asset Assessment and Product Engineering Services. Time based actions are based on ABB factory recommendations, and customer requirements where applicable.

In this module of ABB Power Care Agreement, ABB Low Voltage Service offers a standalone services for further improvements on the switchgear to increase reliability and extend the life of the system. Examples of such services are as follow:

- upgrade and retrofit of classic, obsolete or limited products (e.g. breaker or INSUM upgrade)
- upgrade of switchgear components (e.g. MNS modules)
- increase switchgear safety with the addition of Arc Guard System.

For further information contact:
www.abb.com/low-voltage/service

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