Strategic and Critical Circuit Breaker Parts
Recommendations for improving substation availability

The requirement for more power and reliability on US electrical grid systems increases daily; and therefore particular attention must be considered for the availability of substations. ABB High Voltage Service has the expertise to recommend strategic and critical components to keep your fleet reliable - ensuring maximum uptime long after energization.

Although ABB's dead tank circuit breakers (DTB) are highly reliable equipment with minimal outage rates, a certain number of failures during the entire lifetime is statistically probable. As a result of more complex grid configurations in the future and the impact on a substation and its equipment, a failure cannot be ruled out completely. In a worst case scenario, a failure could lead to a total blackout. With possible financial and reputation losses at stake, a contingency plan including critical spares must be developed.

With our recommendation for strategic and critical components, we focus on long-term equipment reliability. Our goal is to help you prevent both major and minor failures.

Do you have customized or legacy equipment running mission critical systems? It is crucial to have spare components on site for emergency events and keeping downtime to a minimum during outages.

The most important question is not how often such failures occur in particular components, but how sensitive is the system to an unexpected long-term outage of a section of the power system. This information needs to be considered by substation owners and managers as the basis for any decision.

The importance of strategic spare components depends heavily on the redundancy in the system.

Critical spare parts
Critical spare parts are fully factory tested and can be used immediately for replacement of failed components.

Strategic spare parts
Strategic spare parts are in addition to critical spare parts and are needed for maintenance and maintaining reliability. Based on the equipment spectrum in your substation, ABB will make recommendations for an optimal combination of specific parts packages and cost-saving stock levels for your fleet.
ABB Breaker Types PA & PM, 38kV to 800kV

Critical Components
- Operating Mechanism
- Spare Interrupter
- Spare Pole
- Spare bushing
- Motor coil
- Trip Coil
- Close coil
- Density monitor
- Spare CT’s
- Spare bushings
- Spare electrical control components - i.e. relays, auxiliary switches

Strategic Components
- Seal kits
- Desiccant
- Mechanism and pole heaters
- Maintenance tools

For more information, please contact:
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