

## SERVICE NOTE

# Control upgrades for high power rectifiers

## Extend the life cycle of your assets



— This control cubicle is an example. The actual product can differ from this example.

### Legacy control platforms and related issues

A high power rectifier's control platform is designed with specialized electronics that, due to rapid technology advances, can quickly become obsolete. This affects the life cycle of the overall control system. To combat early aging, ABB's control upgrades can be implemented with minimum disruption to production up-time. The upgrades deliver the latest in controller technology to extend the life cycle of your assets, along with complete life cycle support services guaranteed under ABB's Product Life Cycle Management model.

### Key benefits

- Optimized asset performance
- Increased maintainability of your equipment
- Long-term availability of spare parts
- Minimum shutdown and commissioning time
- Safe operations
- Re-use of existing terminals
- Long-term availability of engineering support

ABB's control upgrades are a cost- and time-efficient answer to improving performance and extending the life cycle of its high power rectifiers. The control upgrades are an attractive alternative to the more comprehensive spare parts and maintenance programs.

### Control upgrade procedure

The existing controller is replaced with an AC 800PEC, providing high performance applications with extremely fast control algorithms. Embedded into a robust and flexible system structure, the industrial process controller has proven its suitability in many industries outside of those using high power rectifiers. The AC 800PEC improves an application's performance and significantly decreases the risk of downtime, thereby providing a reliable and safe system operation.

### Standardized solution

Using a standardized approach improves the speed and efficiency of the control upgrade procedure. For instance, a standard template helps speed up the engineering process. The control upgrade is partly pre-assembled and tested, providing a faster lead-time and lower installation and commissioning costs.

**Lifetime extension**

Upgrading to the latest generation of control systems significantly increases the life expectancy of the complete rectifier. Removing obsolete components contributes to higher plant reliability and safety.

**Safe operations**

The control upgrade includes installation, testing, commissioning and either hands-on or on-site training for shop floor personnel through to management. Staff learn how to safely operate and maintain equipment, troubleshoot problems faster and extend the lifetime of the installation. The upgrade includes a user-friendly intuitive operator panel, the functionalities of which can be accessed through a touch-screen.

**ABB service**

With over 100 years of experience, ABB is a perfect partner, providing rectifier services and solutions that ensure safety and reliability for your complete high power rectifier system.



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