Unsymmetrical current distribution on high power rectifiers results in an accelerated aging process of semiconductors and fuses. The current distribution measurement detects and corrects this. This service is available for equipment of any brand.

**Measurement report**
We provide you with a detailed report of your rectifier.

**Corrective actions to increase the reliability**
Our engineers will recommend corrective actions to increase the reliability of your system.

**Exchange of defective semiconductors and fuses**
ABB offers you a selective exchange of suspect semiconductors and fuses.

**Exchange of all semiconductors and fuses**
We provide the opportunity to exchange all of the semiconductors and fuses on demand.

**Implementation of suitable components**
Our engineers have the „Know-How“ to implement suitable components for current distribution improvement.

**Replacement**
If necessary ABB will replace the whole rectifier.

**Investment planning**
All of our benefits facilitate room for investment planning.
The lifetime expectancy of semiconductors and fuses is directly related to the amount of current they have been subjected to. High power rectifiers consist of numerous parallel semiconductors and fuses. Unequal current distribution amongst these parallel components means that some elements are subjected to higher currents than designed for. These components will age at a faster rate and will eventually fail unnecessarily.

### ABB supplies

**Scope of Supply**

- Use of current distribution measurement unit COPORE 192
- 192 synchronous channels
- Real time measuring system
- Survey / measurements on site
- Reporting

### Customer supplies

**Information to be supplied by the customer prior to a quotation**

- Photographs of the unit
- Dimensional drawings
- Number of semiconductors
- Nominal current / voltage (see nameplate)

**Pre-conditions for execution, required customer support**

- High power rectifier isolated for the installation of the measurement unit
- High power rectifier available for operation at different loadsteps
- The availability of two electricians to assist (installation of equipment)

For more information please contact:

**ABB Switzerland Ltd**
Service Power Control
CH-5300 Turgi / Switzerland
Phone: +41 58 589 25 67
Fax: +41 58 589 20 90
E-Mail: hpr.support@ch.abb.com
www.abb.com/powerelectronics