The only excitation system on the market with uncompromising availability

SPPA-E3000 THYRIPART® Excitation System

is a load-dependent static excitation system for synchronous generators and emergency diesel generators, and can also be supplied for use with brushless exciters on request. It is designed for the low and medium output range up to approx. 50 MVA and is used in hydroelectric, steam and nuclear power plants (emergency diesel generators) with the stifferst requirements for reliability and availability.

The Task

Sooner or later, the existing excitation system will reach the end of its service life. This may be because some of its modules have been discontinued, or simply because further operation is no longer cost-effective. For example, this is the case if spares are only available at high prices, or if the grid operators impose new requirements for control dynamics which the systems are unable to meet, or if the calculated risk of failures exceeds the acceptable level for any other reasons.

A solution is therefore required which fits perfectly in the existing situation in the power plant and which ensures reliable operation and availability at the push of a button at all times with innovative technology.

Our Solution

THYRIPART® is a proven solution for synchronous generators from all manufacturers and can be used both as a static excitation system for generators as well as for exciting rotating exciters. The unconditional reliability and robustness of this system has been clearly demonstrated for years by the over 750 units in operation. The solution can be adapted to the conditions in any power plant, regardless of the geometry of the available installation area or the type of generator, power supply or I&C.

Your Benefit

- Uncompromisingly high reliability and availability of excitation system – thanks to unique reliability concept
- Simple replacement of existing excitation system in the shortest possible time, with no interface problems
- Low maintenance costs thanks to use of proven components and modular design