

Reliability and high temperature performance in Nuclear Power Plants

**ABB and DuPont™ NOMEX® improve reliability and thermal performance
in power transformers**

Application

- Generator excitation transformer in nuclear power plant substation.

Requirements

- 5 MVA units.

Configuration

- Liquid-filled, hybrid insulation systems with NOMEX® brand paper and cellulosic pressboard.

Characteristics

- higher-temperature performance
- higher overloadability
- longer operating service life
- increased reliability under demanding operating conditions

ABB increases reliability with NOMEX® insulation systems

Alone or in hybrid solutions with cellulosic pressboard, systems based on NOMEX® thermal technology maintain excellent electrical, thermal and mechanical characteristics over a transformer's service life. Negligible ageing, high resistance to shrinkage and compression, excellent dynamic mechanical strength of NOMEX® brand paper all help ensure coil structures will remain tight and are able to withstand short-circuit forces, even after years of service.



ABB transformer coil insulated with NOMEX® brand paper ready to ship and install.

