

Installation of a 525-kV XLPE cable system in China

ABB Energiekabel GmbH of Germany has won a contract to install a 525-kV XLPE cable system in the Dachaoshan hydroelectric power plant of *Yunnan Dachaoshan Hydro Power Co Ltd* in the province of Yunnan, China.

The approximately 2,000 meters long 525-kV cable will run through a 150-m deep shaft and link an SF₆ gas-insulated substation to a power transformer, 12 terminals being used in each case. Hand-over of the cable system is planned for the end of 2001.

The order represents the first for a 525-kV XLPE cable system from ABB. It was won on the strength of the state-of-the-art technology as well as good experience with ABB 425-kV XLPE cable systems.

Static var compensator for a 138-kV transmission system in the USA

US power company *Conectiv* has awarded ABB Power Systems AB of Sweden a contract for the delivery of a static var compensator. Its main task will be to stabilize the existing 138-kV network in Sussex County, Delaware.

The ordered SVC consists of one 140-MVar thyristor-controlled reactor, one 110-MVar thyristor-switched capacitor bank and two filters rated at 20 MVar each, tuned to the 5th and 7th harmonics. Due to phase

angle control of the TCR, the output ranges from 100 MVar inductive to 150 MVar capacitive. The reactive power will be continuously variable, with symmetrical control of the three phases for fast and accurate voltage control. The plant is to be installed in the Nelson substation and will be placed in commercial operation in June 2000.

SVC Light chosen by RWE Energie

ABB Power Systems of Sweden was recently awarded a contract to deliver a static var compensator of type SVC Light to *RWE Energie*, Germany, to improve the quality of the electricity supply to a steel mill.

An article on SVC Light appeared in ABB Review 6/98. A new technology that brings together the voltage source converter and IGBTs, it offers unique possibilities for power quality improvement in the high power range.

A first SVC Light system was installed recently in the Hagfors steel plant of *Uddeholm Tooling AB*, Sweden.

ABB environmental systems for a coal-fired power plant in the USA

ABB Environmental Systems, USA, has been awarded a contract to supply emission control systems for a large coal-fired power plant in the USA. The order, worth approximately US\$ 200 million, was placed by *EME Homer City Generation L.P.*, a unit of US-

based *Edison International's* wholly owned global power subsidiary, *Edison Mission Energy*.

ABB will supply and install selective catalytic reduction systems to capture nitrogen oxide emissions, as well as a wet flue-gas desulphurization (WFGD) system to remove sulphur oxide emissions. The WFGD system is expected to reduce generating costs by allowing the plant to burn a wider variety of coal types while maintaining emission standards.

ABB to build a 500-kV substation in Pakistan

A major order has been received by ABB Calor Emag Schaltanlagen AG, Germany, from the *Pakistan Water and Power Development Authority (WAPDA)*. The order is for the planning, supply, construction and commissioning of a 500-kV substation which will link the 1,450-MW Ghazi-Barotha hydropower plant to Pakistan's national grid. Valued at about US\$ 23 million, the order includes six generator breakers and the switchyard, for which ABB will supply 18 500-kV circuit-breakers, 59 current transformers, 24 voltage transformers and 33 surge arresters. ABB will also be responsible for installing the substation control system and the numerical substation and generator protection.

Commissioning of the substation is due to take place in the first quarter of 2002.

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