

## **Babcock Noell integrates SMARTEC Optical Sensors into Superconducting Solenoids for the Spallation Neutron Source Project in Oakridge**

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**St-Lambert, Québec, August 22, 2007** – SMARTEC SA, a wholly owned subsidiary of Roctest Ltd (TSX: RTT) announced today that it has provided, a fiber optic monitoring system, designed to measure the internal displacements of two superconducting solenoids that will be installed at the Oakridge National Laboratory in Tennessee, USA, as part of the Spallation Neutron Source (SNS) project's instrumentation. SMARTEC delivered the monitoring system during May 2007.

Babcock Noell has planned, designed, manufactured and supplied the two solenoids for the neutron spin echo spectrometer (NSE) to its customer Jülich Research Center. The magnets consist of solenoids, i.e. cylindrical coils that form a constituent part of an experiment on material research with neutrons. Some noteworthy technical features of this superconductive magnet system are a cooling by means of cryocoolers and a fiber optic position monitoring system for the coils during operation, supplied by SMARTEC.

The fiber optic monitoring system, based on SMARTEC's SOFO system, is able to measure the relative displacements between the solenoid, cooled by pulse-tube cryocoolers to cryogenic temperatures of about 4 K or -269 °C, and the outside cryostat at room temperature. Each of the two Solenoids is equipped with 8 sensors with an accuracy of 0.002 mm, providing information on all possible displacements. The sensor design was initially developed by SMARTEC for the monitoring of the superconducting magnets used in the LHC collider at CERN in Geneva, Switzerland.

"SMARTEC has designed and delivered structural monitoring systems for the most diverse applications in extreme conditions, from civil structures to deep-water oil & gas systems. In this project the main challenge resided in the need to measure a displacement between two points having a temperature difference of almost 300 °C, without causing significant heat transfer between the two", said Daniele Inaudi, CTO at Roctest, who also added: "A non-contact optical method appeared to be the most appropriate solution and the fiber optic link eliminates the need for inspection windows and allows the measurements to be performed automatically and remotely. We are looking forward to a continued cooperation with Babcock Noell on other similar projects".

"After an intense market survey on a measurement system fitting all our needs for the NSE solenoids, we ended up with only a few solutions. Among those SMARTEC's system was outstanding, because it has proven to provide the needed accuracy under the extreme operating conditions: cryogenic temperature, high magnetic field and insulation vacuum." said Dr. Wolfgang Walter, Head of Development and Sales Department at Babcock Noell's Magnet Technology Division.

### **About Roctest**

Roctest designs, manufactures and markets sensors and high-precision measuring instruments for the civil engineering, energy, healthcare and industrial control markets. The Company is recognized for its leading-edge technology, the quality of its technical expertise and its products development capabilities for challenging and demanding environments. Its products are mainly sold internationally. The Company has more than 140 employees and its shares are listed on the Toronto Stock Exchange under the symbol RTT.

### **About SMARTEC**

SMARTEC is a leading developer, producer and distributor of measurement and structural health monitoring systems that set standards for innovation, quality, ease of use and durability. SMARTEC supports and trains its customers in the design, installation and use of monitoring systems, as well as in the management and analysis of the resulting data. The product range consists of sensors (fiber optic, GPS and conventional), data acquisition systems and software for data management and analysis. Its domains of expertise cover civil and geotechnical engineering, structural engineering, oil and gas industry and energy distribution.

### **About Babcock Noell**

Babcock Noell GmbH (BNG) is the centre of competence with world-wide responsibility for nuclear- magnet- and environment technology.

Superconducting magnet technology has gained significant relevance in BNG thanks to the participation in large fusion- and high energy projects. BNG is for example involved at CERN's LHC accelerator project and supplied 416 pieces 15 m long dipoles. Furthermore, BNG is leader of a consortium producing all 50 non planar superconducting coils for the fusion experiment W7X of the Max Plank Institute in Greifswald / Germany.

BNG is also involved in the construction of new nuclear power stations, maintenance, modernisation, decommissioning and dismantling for nuclear installations are within the portfolio.

The activities in the environmental field are focused on the design and construction of flue gas cleaning plants in power, waste and industrial field.

BNG has the capabilities to provide engineering and planning for large projects or act as a general contractor.

### ***Forward-Looking Statements***

Except for historical information provided herein, the press release may contain information and statements of a forward-looking nature concerning the future performance of the Company. These statements are based on suppositions and uncertainties as well as on management's best possible evaluation of future events, and as such involve a number of risk factors. Such factors may include, without excluding other considerations, risks related to foreign exchange fluctuations, evolution in customer demand for the Company's products and services, the impact of price pressure from competitors and general market trends, economics and geopolitical changes. A more complete discussion of the risks and uncertainties facing the Company appears in Roctest's 2006 Annual Report under Management's Discussion and Analysis of Operating Results and Financial Position for fiscal 2006 and the 2006 Annual Information Form available at [www.sedar.com](http://www.sedar.com). As a result, readers are advised that actual results may differ from expected results. The Company is not required to update or revise publicly its forward-looking statements.

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