

# The Pulse of Power

Newsletter from ABB AB, Components

Volume 36, December 2008

## A few words from the general manager...

Dear Colleagues,

I have now spent six months as head of Components in Sweden and I'm impressed by the devotion and capability that we have in the front end, our OEM customers and in the organization. The devotion and capability is now fully focused to further improve our performance and deliver what we have promised to our customers. However, there is still room for improvement, both in our market penetration and in the delivery process. To manage the increased demand, we have launched several new initiatives.

It is a pleasure to see that the launch of the new vacuum tap-changer is moving into the next phase, the dry bushings are increasing rapidly and the ongoing capacity investments are on track to further improve our delivery capability.

As an initiative to further strengthen our marketing penetration, a new "end customer marketing group" has been created, headed by Stefan Spasovski. The main focus is to strengthen our dialogue with end customers and to ensure that our end customers are educated about our added-value in the new products that we are launching.

Valid from December 1st 2008, we also have some organizational changes within Components. Rutger Johansson is going to be in charge of the lead center function at Components, Andreas Berthou is the new manager of the bushing factory and Gentil Oliveira (from High Voltage Products) is the new marketing and sales manager.

Even though we are facing a very uncertain market situation, I'm sure we have a strong position in the market and can outgrow the competition in the future. It will however require good teamwork between us as a supplier, our OEM customers and our front end sales. Here, I count on your devotion and support.

I look forward to continuing this journey with all of you.

*Niklas Persson*

General Manager  
Components, Sweden



## Technical seminar

March 9-13, 2009, we will once again arrange one of our popular technical seminars. The theme for this year is "Safety in substations and qualifying tests of transformer components". We have an exciting schedule on offer, including both Swedish and international speakers, who are acknowledged experts in their respective fields.



## UHVDC testing facility for bushing testing

Building of the new UHVDC testing facility in Ludvika started at the end of January 2008 and runs as planned. The first test of bushings is planned to take place in the middle of March 2009.

The testing facility allows us to manufacture and develop the existing and future generations of UHVDC bushings. Bushings up to 1200 kV AC and 1000 kV DC can be tested in the UHVDC facility.

### Maximum bushing voltage levels corresponding 1000 kV DC / 1200 kV AC are:

DC	2000 kV (100mA)
AC	1700 kV
LI	3300 kV
SI	2500 kV



May 2008



June 2008



August 2008



August 2008



September 2008



November 2008

## GSB bushings qualified to meet the most demanding seismic requirements

Experience shows that there are on average approximately 20 major earthquakes per year around the world. Experience also shows that incorrectly dimensioned electrical equipment is easily crippled. Transformer bushings are an integral part of most systems and it is essential that they are designed to withstand all possible conditions.

ABB has spent decades of research and development in this field and made it possible to find solutions to earthquake regions of the world for more than 40 years with an excellent service record. Yet, with the recent advancements in materials and manufacturing methods it has been possible to make bushing designs that far outperform their predecessors' ability to withstand earthquake damage. Recently, full scale tests have been performed on GSB bushings up to 550 kV size to demonstrate compliance with exceptional load conditions.



## GOE 2600 for 1000 kV

On March 9th, 2008, the world's first single-phase 1000 kV/ 240 Mvar shunt reactor produced by Xi'an XD Transformer Co., Ltd. passed the type test, and was installed in Jindongnan substation on August 13, 2008. The bushing, which is of the well-proven GOE type, is an integral part of the reactors and transformers, and has played an important role in the UHV reactor and transformer construction for our Chinese customer.



## Vacuum tap-changers by ABB

Our line of UCG tap-changers can be supplied with a vacuum diverter switch as an alternative to the traditional system with arc quenching in oil. The same service and maintenance philosophy regarding simplicity and absence of special tools and equipment characterizes ABB's design of vacuum diverter switches. ABB is the only manufacturer in the world who can offer fully interchangeable diverter switches. Facilitating interchangeability in existing installations is one of our fundamental design philosophies and customers who choose to upgrade will discover that it is equally as simple as normal maintenance. The photo shows an upgrade on a transformer made in 1988.



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