



Change in management

Michael Rohde successor of Dr.-Ing. Harro Lührmann



Michael Rohde (left) has joined MR as new member of the management board. On 1 April 2005 the graduate engineer will take over from Dr.-Ing. Harro M. Lührmann (below) who is retiring after 16 years with the company in Regensburg. Michael Rohde and Dr. Nicolas Maier-Scheubeck, who has been a commercial director since 1996, will be jointly responsible for MR and its 12 associated companies worldwide.

In his last position Michael Rohde was in charge of the high-voltage business sector of the Power Transmission and Distribution (PTD) division at Siemens AG in Erlangen. Previously the 46-year-old had held various positions within the Siemens group, initially in the project and construction field. He later changed to take charge of the worldwide sales and distribution of medium-voltage products. Between 1996 and 2000 he was CEO of Siemens Ltd. Saudi Arabia.

Dr.-Ing. Lührmann originates from Lingen an der Ems. After his graduation and doctorate at the Technical University of Braunschweig and various career moves, he was appointed Technical Director at MR in 1989. As honorary senator, chairman of the Board of Trustees for the Promotion of the University of Applied Sciences Regensburg and chairman of the Association of Friends of the academy, his plans for the future include continuing his commitment to the interlocking of science and economy for the benefit of the region of Regensburg. ●



40 000 Euro donation for Tsunami Victims

To express its compassion with the tsunami victims in Thailand and Indonesia, MR board members Dr. Nicolas Maier-Scheubeck and Dr. Harro Lührmann decided spontaneously to donate 20 000 Euro for each country directly to local relief organizations. Max Philipp, managing director of Reinhausen Asia-Pacific, personally presented the donations. At the King's Palace in Bangkok he was invited to an audience with Her Royal Highness Princess Maha Chakri Sirindhorn which is a great honour in Thailand. He was joined by MR's local agents Mr. Saengchai and Mr. Numchai from Tan&Sons (photo). In Jakarta the money was handed over to Palang Merah Indonesia, the local Red Cross society. Co-chairman Prof. Dr. Sujudi welcomed Mr. Philipp and the Indonesian agent Mr. Tanara from PT Galluh. He told them that it would take up to five years for things to normalize. Especially the large number of orphans causes big problems. For this the country needs all the support it can get. ●



MR After-Sales Service fulfils important assignment for China State Power Grid

Three MR specialists (see photo right) accomplished a particularly demanding service assignment for the China State Power Grid in the Nanqiao transformer station that is located 50 kilometres away from Shanghai. An HVDC transmission network for the Gezhouba hydroelectric power station ends there. The German specialists' task: an extensive overhaul of six Trafo Union 3000-amp on-load tap-changers. The on-load tap-changer inserts had to be removed and extensive service work carried out all within two weeks. The assignment also included a final quality control with switching sequence measurement. Even though the on-load tap-changers were over 20 years old, MR was still able to make the necessary components available at short notice. By working right through the weekend the team managed to get the transformer station back into operation within the deadline.



Konrad Roider, in charge at MR for the assignment: "Once again we have demonstrated to our customers that we are quite able to service even older Siemens, AEG and Trafo Union on-load tap-changers reliably and quickly and to our high standards of quality. Our service technicians are genuine all-rounders who are sent out into the field around the world approximately 3000 times a year. That is our customers' best sign of confidence." ●

Contact: k.roider@reinhausen.com

Premiere: First Voltage Regulator with IEC 61850 commissioned

Recently the world's first voltage regulator with IEC61850 interface began work at a substation of the Garzweiler II coal open cast mining. All six TAPCON® 260s are connected via a switch with a central processing unit in the control room. They provide both monitoring and control functions. Presently the configuration includes 120 hardware modules with approximately 2000 measured values and about 8000 messages. In addition, six TAPCON® 240-LVs are in operation. They are used as an independent monitoring device for voltage regulation. ●



Contact: s.preitnacher@reinhausen.com

MR Service is literally Full-Service



End of 2004, the MR full-service mobile was in charge at German utility N-ERGIE, based in Nuremberg. The task was challenging: To do maintenance within the cold season at seven on-load tap-changers from different manufacturers - MR-type M III but also older makes from Siemens (WF) and AEG (CRND and CRNA). All these types are operating in german-made 110-kV power transformers. Full-Service started with provision of the necessary oil, approximately 2.000 liters. Also provided by the MR personnel was the mobile full-service station with oil pump, crane, ladder and working tent to protect against severe weather. Then a complete maintenance of on-load tap-changers and motor-drives was done, including also small reconditioning works. And for sure, used oil and materials like gaskets were workmanly disposed by the MR specialists. Finally they also made the oil dielectric strenght test to certify proper operation. This mission of the MR full-service mobile within the first december weeks was to the complete satisfaction of the customer. Needless to say, that it is on its next job right away. ●

Contact: j.ruby@reinhausen.com

UAE Utility SEWA is Betting on TAPGUARD®

Sharjah Electricity & Water Authority (SEWA) is betting on the control and monitoring electronics from MR for three new 75-MVA transformers. The TAPCON® 240 voltage regulators were delivered with TAPGUARD® software which will permit condition-based maintenance. This technology is currently only available from MR. For the function test, devices and transformers were connected together at the transformer manufacturer SGB in Regensburg and subjected to a thorough check. Two representatives of the customer were present at the test (from left): Engineer Salim M. Binrabeeh (SEWA), Dr. Abu Yusuf (SEWA). They were accompanied by Sales Manager Werner Fleischmann and MR representative George Aziz. ●

Contact: w.fleischmann@reinhausen.com



Vacuum Technology for Chinese Steel Group

An Shan Steel Factory, one of the leading steel groups of the People's Republic of China, is counting on the latest MR vacuum technology. In the future a VACUTAP® VRCIII700 will contribute to the power supply of the factory in An Shan City. The transformer was built by the Baoding Tianwei Group. This business group is one of the country's largest transformer manufacturers. Between 2000 and 2004 steel consumption in China doubled to now 265 million tons. The figure is expected to reach 310 million tons by 2010, according to China Iron and Steel Association. That's why chinese manufacturers expand their capabilities. ●

Contact: k.meyer@reinhausen.com

Indian Heat Power Plant with Off-Circuit Tap-Changers from Regensburg

A total of eight Deetap® U I 600 - 72.5 off-circuit tap-changers are being delivered to the National Thermal Power Corporation in India. They will be used in generator transformers which ABB will supply for the 1980-MW coal power plant Sipat 2 which is currently being built in the federal state of Chhattisgarh. It is the first supercritical power plant in the country, and has been given "Mega Project" status in the government's attempt to plug the gap between power supply and demand. ●

Contact: t.breinl@reinhausen.com

Filter Circuit of MR Stabilizes Dutch Gas Supply

In the vicinity of Groningen Nederlandse Aardolie Maatschappij B.B. (NAM) operates a large gas field of 900 km² with an annual output of 27 billion m³. Decreasing pressure in the production area has made it necessary to equip the production sites (called clusters) with electrical compressors. Over the next 12 years, variable-speed drives, among others, with a rated capacity of over 20 MW each will be installed by the consortium of STORK GLT in more than 22 clusters. Due to the use of 12-pulse, current source DC link converters with thyristors on the input side, measures must be provided to reduce the current harmonics and the inductive reactive power.

Comprehensive network studies specified 20-kV filter circuit systems with frequencies of 250, 350 and 575 Hz and capacities between 8.2 and 9.7 Mvar which are connected decentrally to each converter.

These filter circuit systems will be planned like a convoy by the MR department Power Quality Management, installed and commissioned. Currently 11 systems are in operation and another 6 systems are in the planning stage. The 20-kV filter circuit systems are premounted on a steel skid with the dimensions 12 x 3.6 m and then transported complete to the Netherlands and driven into the building. This saves expensive mounting hours at the construction sites and the entire system is delivered as a pretested unit. A reusable tarpaulin was even developed for transportation.

The three filter circuit steps reduce the generated harmonics of the variable-speed drive and decrease the inductive reactive power of the total system to values which adhere to the power delivery contract. To turn on the filter circuit system, the skid is

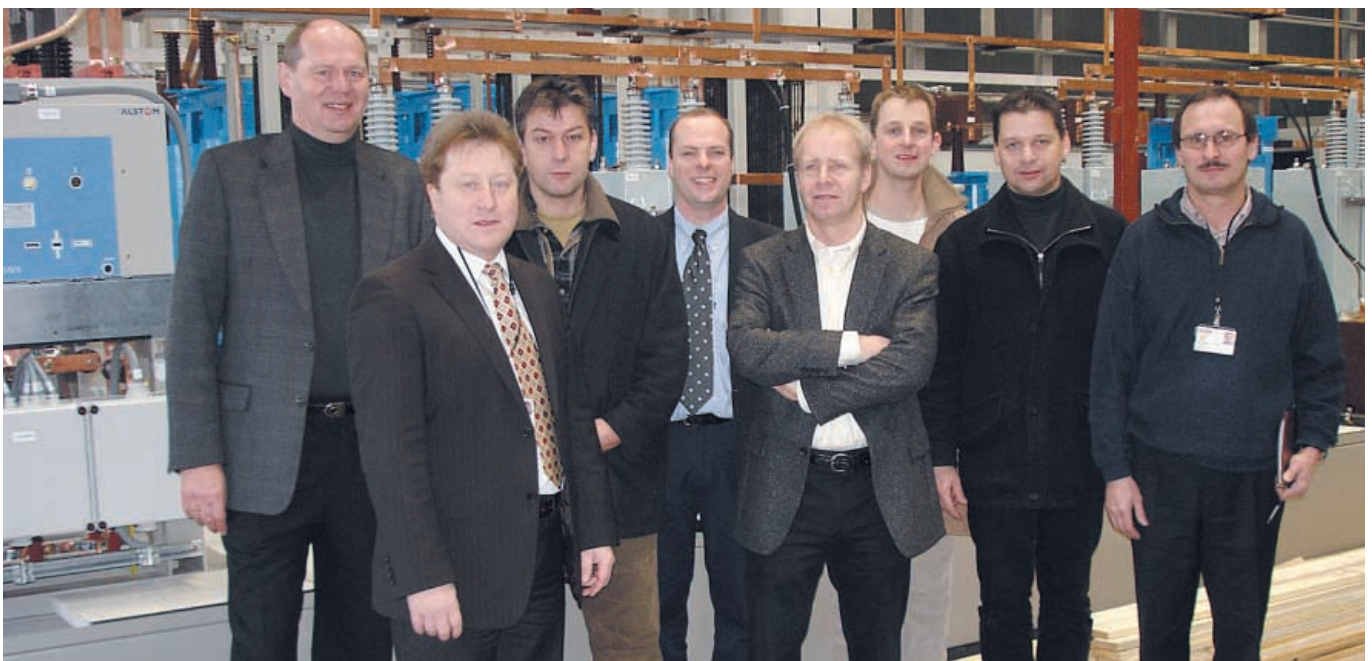
equipped with a switch-on attenuation resistor with bypass circuit breaker so that other power loads are not disturbed. Since, with certain clusters, the audio frequency ripple control may not be disturbed or affected, audio frequency locking circuits are installed in front of drive and filter circuit for these clusters.

During commissioning, documentary measurements are required which were successfully passed. Since 1997, MR has been a permanent partner of the STORK GLT consortium for the delivery of filter circuits. With its constructive participation in all project phases, MR ensures that power continues to be supplied in the electrical neighborhood of the entire gas field. ●

Contact: b.walther@reinhausen.com



A section of a filter circuit



Employees of NAM, STORK GLT, Siemens and MR during official acceptance at the shop

New Metal Coating Section at Easun MR



EMR our Joint Venture Company in India is located about 37 kms out of the southern city of Chennai in India. The Joint Venture has been producing Tap Changers for the Indian market. The range now includes Types, 'A', 'V', 'D' & 'M'.

EMR has shown notable growth in the last 4 years with increasing output. The plant of EMR consists of a Machine Shop, producing components for their Tap Changers, a mechanical assembly bay, assembling the OLTC, an electrical assembly bay producing the Drive Motors of MA 2 & MA 9 and a Metal Coating Section for painting and powder coating of fabricated Drive Motor shells and external components of the OLTC.

Till now EMR's metal coating section was housed inside the main manufacturing facility itself. This has been causing some problems in the past. EMR hence decided to isolate their metal coating section and have built a separate structure to house the same.

On 31/01/2005, during the visit of Managing Directors Dr. Maier-Scheubeck and Michael Rohde, the new building housing the Metal Coating Section was declared open for occupation. EMR would furnish the facility within before end March and the metal coating section is likely to be operational at the new facility from April 2005. ●

Find more information: http://www.easungroup.com/emr_home.htm



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Editor: Marketing Communications, o.reichmeyer@reinhausen.com
Phone +49 941 4090-648, Fax +49 941 4090-666
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