

FOR IMMEDIATE RELEASE

Quick Turnaround Achieved On Rotor Rewind For Sugar Mill Alternator

Marthinusen & Coutts recently performed a rush job for sugar producers Tongaat Hulett in repairing the rotor of the 20 MW salient pole synchronous alternator at its Xinavane mill near Maputo, Mozambique.

The division carried out the complex task at its Cleveland, Johannesburg, facility in just over three months. It involved a complete rewind of the rotor, which has a cruciform-type winding configuration.

“It was complicated by the fact that we found it necessary to redesign the winding and insulation,” Craig Megannon, general manager at Marthinusen & Coutts, explains.

“The original coil had developed a fault due to the fact that it had been vacuum pressure impregnated, which by forming it into a solid block caused differential expansion between the copper windings and the steel of the rotor body. We solved this problem by introducing thicker insulation and thinner copper windings, which were neither VPI’d nor glued to the pole body.

“This achieved the desired result, as proven by the tests we carried out on the rotor windings on completion of the job,” Megannon says.

With 57 years of extensive experience in the local and global market, Marthinusen & Coutts undertakes both electrical and mechanical repairs, overhauls and complete refurbishments.

QUICK TURNAROUND PIC 01 : From left Rudi Els, coil shop manager at Marthinusen & Coutts, specialist winder at Marthinusen & Coutts, William Martin, and Craig Megannon, general manager at Marthinusen & Coutts during the rewind of the Xinavane mill’s alternator rotor at the company's Cleveland facility.

ENDS ... FEBRUARY 2016

FROM : CORALYNNE & ASSOCIATES
TEL : +27 011 849 3142
EMAIL : communicate@coralynne.co.za
WEBSITE: www.coralynne.co.za

quick turnaround for sugar mill

FOR : RICHARD BOTTON
MARTHINUSEN & COUTTS (PTY) LTD
TEL :+27 011 607 1700
EMAIL : richardb@mandc.co.za
Website: www.mandc.co.za