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Dear Reader,

To improve clients' services the Sarens Group has realized local entity reinforcements and engineering & project management expansions, as well as new procedures. The Sarens Board also aims to extend its European safety procedures to all Group companies. Therefore a QSA manager was appointed since January 2006 to implement these procedures worldwide.

To meet our clients' highest expectations, we have extended our fleet! In this edition we would like to inform you on our fleet of barges. In addition to our existing twin barge "Karel & Victor", we acquired the twin barges "Jozef & Rosa" in 2005, both named after the two twins of the old Sarens family. "Rosa & Jozef" were mainly active in France. In February 2006 our new barge "Louis" - named after the oldest son of granddad Sarens - will be launched.

In addition to expanding the barge fleet and the project activities in France we also appointed a new experienced director Jean-Yves Gomila. Our French organisation consists today of 135 employees in 5 branches. One in the South, one in Paris and 3 in the North. Also, take a look at our renewed website www.sarens.com and enjoy the Sarens way of working!

Ludo Sarens - Jean-Yves Gomila

FEATURED PROJECTS

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Once again a turbine assembled with our Dutch "top" team.

Energy: Waste incineration plant - Issy les Moulineaux, France [\[top\]](#)

Customer: SYCTOM
 Equipment Used: Kamag 4 x 4 lines + longitudinal beams / LR1400 / LR1350 / LTM1300 / KH 500 / LTM1160

Besides a quay at the Seine in Issy les Moulineaux, the city of Paris is building a major incineration plant for processing waste of 20 Parisian communities. All heavy on site transport and crane works (during 18 months) are carried out by Sarens. The inauguration of the plant is foreseen in 2007.



Energy: More and more ... wind turbine activities ..., France [top]



2005 was a very successful year for Sarens France. They executed major crane work services for various wind turbine contractors. Because of the importance of the market Paulo Goncalves was appointed as "Mister wind turbine France" within the Sarens France organisation with the mission to strengthen our position in this market segment. Sarens Group offers in France now also mechanical assembly services of wind turbines.



Bridges: Positioning of a bridge "Pont des Docks" - quay "Paul Vatine", France [top]



Project: Bridge transport
Equipment used: twin barges Jozef & Rosa / Kamags

Our new twin barges "Jozef & Rosa" (dimensions : 2 x (52 x 9,5 x 3,5 m)) were active a few times in France in 2005. The picture shows the transport of the mobile bridge "Pont des Docks" from Lauterbourg to Le Havre.



Bridges: Trip through Paris - Passerelle Bercy-Tolbiac, France [top]



Project: Pedestrian bridge
Equipment used: twin barges Karel & Victor / Kamags / Strand Jacks

In August and September 2005 a pedestrian bridge was transported from Lauterbourg to Bercy-Tolbiac. The bridge was rolled on the Sarens barges by means of SPMT's and passed the "Pont des invalids" and "Pont de Grenelle" in the centre of Paris.



Petrochemical: Gonfreville, France [top]



Project: Lifting flare
Equipment used: LR1400/2 / AC650

In the 4th edition we showed our first operation on this site namely lifting a reactor with our Sartower-concept. At the end of 2005 all heavy lift work activities were completed with a "flare"-lift in the Totalfina DHC-unit.

The client congratulated us for our "incident-free" execution which was the initial goal of the project. Thanks to this performance, we won a new order in Texas (US) for a reactor head towerlift (more information in our next edition) to be executed in March 2006.



TC VB SOAKER PROJECT, the

Netherlands [\[top\]](#)

 Site : Kuwait Petroleum Europoort BV Rotterdam – The Netherlands
 Equipment : CC1200 / AC700 / LTM1400 / SPMT 20 axle lines / Heavy lift vessel MV Enchanter / Barges

A new Heater Unit has been erected at Kuwait Petroleum Europoort in The Netherlands.

Sarens was contracted to transport all Heater modules from the fabrication yard in Gdynia (Poland) to the foundation at Kuwait Petroleum, Europoort (The Netherlands). The Heater consisted of 42 packages, heaviest weighing 250T (13,70 x 9,14 x 16,50 m). In Gdynia, Sarens mobilised 20 axle lines of SPMT to move the heavy heater modules from the fabrication position to quayside. From this point, Sarens Project Forwarding BV took over the complete port handling and shipping, by the MV Enchanter geared ship equipped with 2x400T cranes.

On arrival in Rotterdam the modules have been transported over public road. The modules were installed onto foundation by SPMT's and by a crawler crane.



FCC Reactor Reliability Project at Nerefco, the

Netherlands [\[top\]](#)

 Customer: Nerefco
 Location: Rotterdam, Europoort
 Equipment used: CC8800

The project involved the unloading of the new reactor from a barge, transporting to the site with SPMT's, lifting out the old reactor and lifting in the new reactor with the CC8800-Emma (one of our 2 in-house available 1.250T capacity crawler cranes). The critical element was the very limited space.

After lifting in Rotterdam "Emma" went to lift two wind turbines in Germany and is now being mobilised for a project in New Caledonia.



A bit of Norway in Malaysia [\[top\]](#)

 Project: Towerlift
 Location: Pasir Gudang (near Johor Boru), Malaysia
 Equipment used: Sartower

This is the first of six lifts in Malaysia, executed with the Sartower-concept developed and executed by Sarens Transrig - Norway. The segment weights to be lifted were varying from 500T to 1.100T per item. Fully assembled the vessel weighed 13.000T and is 50 m long and 32m diameter. It is used as a storage for hydrocarbons. The whole construction was skidded onto a barge and then shipped near to a drilling platform. Once in place the vessel was put at the bottom of the sea.



Relocation of 3 Units of Container Cranes in Vancouver, Canada [\[top\]](#)

 Project: Container crane relocation
 Location: Vancouver, Canada
 Equipment used: Self Propelled dolly units

3 units of container crane weighing up to 1.250T were relocated at Centerm in Vancouver, British Columbia in September and December 2005. The contract was part of a general expansion program that saw the arrival of a few new cranes to the terminal, in

addition to an extension and strengthening of the dock to allow super post Panamax cranes to operate on the terminal. 32 Self Propelled dolly units were utilised in addition to the specially designed lift beam system that also doubles as containers to transport the dollies and adapted ends for ease of shipping and transportation.

The dollies and trusses were fabricated in shops attached to Norsar LLC that have the capability to make a variety of hydraulics including jacks to 500 tons capacity and steel fabrications specialising those necessary to modify container cranes. Each move included S and K turns, covered a distance of about 750 meters and took 6 to 8 hours to complete through the busy terminal. The job was completed safely on 16 December, a nice Christmas present to P&O Lines, the terminal operator.



Sarens at the Winter Olympics 2006, Italy [\[top\]](#)



Project: Arch lifting
Location: Turin, Italy
Equipment used: CC2600 / CC2800 / 4 Strand Jacks 185T

Sarens nv used 2 crawler cranes, CC2600 and CC2800, to lift the red steel Olympic Arch of 524T (64 m high and 45,72 m wide). The Arch is the symbol of the 2006 Winter Olympics, hosted in Turin in February.

The cranes were transported to Turin from Croatia and Sicily for an 11-hour lift operation. Two 70 meter long crane paths with required hard wooden matting were installed on either side of the arch. The arch itself was fixed by means of 2 hinges to its foundations. The cranes rotated the arch from a horizontal position to 85 degrees. At 85 degrees the cranes held the arch and four ground-mounted Strand Jacks of 185T capacity each rotated the arch further to an angle of 100 degrees. At that point the cranes supported the arch and positioned it on its final angle of 114 degrees. At this stage the arch's 4 steel cables took the weight of the Arch and the final position was achieved.



Replacement of an Overhead Crane Trolley - Port Talbot, Wales [\[top\]](#)



Equipment used: SPMT's / AK680-3

Sarens UK Ltd has recently completed the replacement of an Overhead Crane Trolley at the Corus Port Talbot works. Clarke Chapman installed the Wellman Booth manufactured new Crane Trolley which was 18m long, 8,95m wide and 5,4m high weighing approximately 302T including its lifting frame.

Sarens UK Ltd used their Self-Propelled Modular Trailers and 1.200T capacity AK680-3 Gottwald lattice boom crane to move and subsequently lift both the new and existing Crane Trolleys.



Self-Propelled Trailers moving a Regenerator Head Assembly in Immingham, UK [\[top\]](#)



Equipment used: SPMT's / AK680-3

Sarens UK Ltd, working for Somerscales Heavy Haulage and Fabricom Contracting Ltd, have recently completed the transportation of a Regenerator Head Assembly from Fabricom's Immingham facility to the Lindsey Oil Refinery.

The Regenerator Head Assembly which was just over 8,50m square, 12,0m high, weighing approximately 150T, was moved by Self-Propelled Modular Trailers over 5 miles along the public highway. Sarens UK 1.200T capacity AK680-3 Gottwald lattice boom crane replaced the Regenerator Head during the 2005 shutdown period.



Once again our CC8800 in action in Hartlepool, UK [\[top\]](#)



Equipment used: AK680-3 / CC8800

On Saturday the 6th August 2005 Sarens successfully installed an 782T Sulphate Removal Package at Heerema Hartlepool. The unit was craned into position using the AK680-3 and Demag CC8800-Emma. This installation marked the final heavy lift for the Buzzard Field Development project.



Silo Assembly in Lithuania [top]



Project: Silo assembly
Location: Klaipeda, Lithuania
Equipment used: AC300

In September 2005, the Demag AC300 telescopic crane of Sarens Polska was working for 1 month in Klaipeda - Lithuania. This crane was used to build 5 special silos of which the heaviest weighs 44,5T.

The problem of this job was the very windy conditions in the area. The client was pleased with Sarens Polska who performed the lifting of the elements according to Sarens safety standards.



SGP-project Kazakhstan [top]



Location: Kazakhstan
Equipment used: PC9600 / CC8800 / LR1400/2 / CC2600 / SPMT's

Sarens performed one of the major long term heavy lift & transport projects in the last decades with two major heavy lifting cranes (PC9600 and CC8800) next to an LR1400/2, a Demag CC2600, service cranes and 84 axle lines of SPMT's. Compliment of Sarens dedicated site team numbering over 50 have worked on this project in 2 years and were awarded the Gold Safety Award in December 2005 for meeting the highest standards of Safety.



The positioning of a new reactor: a sign of strong professionalism, Belgium [top]



Customer: BASF
Location: Antwerp, Belgium
Equipment used: SPMT's / LR1750 / AC700

At start, SPMT's were used for the loadout of the reactor, which was temporarily stored and then transported safely within reach of the crane. Our LR1750 with 400T superlift first lifted the 300T reactor over a rack and then moved it some 100m to the foundations.

The AC700 was assisting in the tailing operation. After carefully controlled manoeuvres the giant reactor reached its final position. The job got coverage in the November edition of the BASF newspaper.



Once again a turbine assembled with our Dutch "top" team in Germany [top]



All wind turbine assembly works in one hand, that's the service most of our wind turbine clients want!

Sarens Steel Erection department in The Netherlands successfully finished again a German job. For more than 15 years 3 teams are mechanically assembling turbines in Italy, UK, The Netherlands and Germany for Repower, Vestas and Gamesa. This team is always assisted by the lattice boom crane department and project management department of Sarens Headquarters.



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