# new heights

THE ALE NEWSLETTER • ISSUE 06



## Welcome...

...to the September edition of the ALE biannual newsletter which takes a look at some of the latest projects and developments from the business around the world.



Our strategy for investment is aligned to the core values of ALE; we put great importance on the investment in people and equipment in all regions.

Smarter – Investment continues in our research and development facility, where our delivery of innovative equipment and market leading solutions is gaining recognition and winning industry awards. We are currently in the fabrication phase of the AL.SK350. We have also joined forces with a module fabrication company based in the Philippines to

provide a cost effective and environmentally friendly solution to the offshore market. The commitment to such investment gives us industry leader status in markets such as offshore, oil, gas, and petrochemicals.

**Safer** – The strength in our people is supported by training in company standards of competence including safety. Skilled people and quality processes across the company create a streamlined and efficient standard of service to our customers. Aligned to this, we offer a clear and attractive career path to existing and new members of our team.

**Stronger** – By nature all areas of our business must adapt to changing situations, create bespoke solutions and demonstrate agility. We recently announced a joint venture in Australia to offer a wider service to our clients. Where we can see an opportunity we implement a measured plan and resource appropriately, increasing equipment and other resources. Recent examples include our upgraded facilities in Spain and new premises in Abu Dhabi; the best possible facilities from which to meet our customer needs.

Malachy McDonnell

Group Finance Director









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## **Company News**

#### **ALE's ESTA AWARD SUCCESS**

ALE was declared the winner of three awards at the ESTA Awards of Excellence 2012. The ceremony, held on 19th April in Paris, saw ALE pick up the awards for:

- Innovation award for end users won by the Mega Jack System
- Crane job of the year (Lattice Boom Cranes) won for the Valero project in Texas using the AL.SK190
- SPMT job of the year won for the Heathrow airport project

Mark Harries, Global Managing Director at ALE and Kees Kompier, Regional Director of Europe at ALE both attended the event.



#### LATEST PROJECT WIN

ALE has recently been awarded a project at the OSX Shipbuilding Unit, which will be the largest shipyard in the Americas, located in Açu near the oil-rich Campos Basin, Brazil.

The work, beginning mid 2013, will be on-going for a number of years and will see ALE's latest innovation the AL.SK350, the world's largest capacity land-based crane, built and working on the project.

The AL.SK350 will be used for heavy lifting in the Shipyard including the installation of modules onto the Hulls of FPSO's.

Michael Birch, Regional Director at ALE said: "We are proud that OSX selected ALE and identified the SK350 as the best technical solution for their heavy lifting requirements in what is planned to be the largest and most technically advanced shipyard in South America"

## Office news

#### **NEW OFFICE IN SPAIN**

ALE's branch relocation in Spain has now been officially completed. The move was completed in two phases with the office staff moving into the building late last year, and more recently the yard was opened and operational staff were moved in.

The team in Spain consists of a total of 85 people including managers, engineers, operators, sales, and financial personnel.

The new location combines staff from all functions into a unique purpose built facility. By merging the staff from the previous locations ALE has gained extra efficiency and performance by breaking the geographical boundaries and making work methodologies, staff relations, process implementation and culture more fluid and accessible.

The branch in Spain was first established in 1986. It has gone on to grow, delivering high profile projects, and with the new bespoke facilities the region has a solid base to improve efficiencies and sustain the growth of the company.

#### **IRAQ NEW OFFICE**

Due to the geopolitical situation and the projects that ALE are conducting, the decision has been made to open a base with a workshop and office facility. The new facility is based in a secure area between Iraqii ports inside the Free Zone of Khor Al Zubair.

The Free Zone regulation provides several benefits including the possibility to import our equipment on temporary basis directly. The base is located in a strategic location close to nearby Oil & Gas Projects and conveniently adjacent to the sea-ports.

The facility is currently under construction to ensure all amenities are to a high standard. It is expected to be complete during November 2012 and the current office facility in Basra will be present until the end of the year.

## **BRAZIL NEW OFFICE**

ALE has recently opened an office based in Rio de Janeiro, Brazil.

Franco Vernazza, Account Manager at ALE said "The move will allow ALE to offer a better service to clients in this region; it will give the team here an active location from which to seek new contracts through the bespoke engineering solutions ALE is known for."

The main markets ALE will cater for in this region will be shipyards and offshore as well as refineries and ports.

The region will also have a permanent stock of specialist equipment in addition to the available resources from the global stock around the world.



## **Equipment News**

#### **ALE LAUNCHES 5000TE CAPACITY AL.SK350 CRANE**

ALE has recently announced that it is bringing the next generation AL.SK crane to the heavylift market. What is, without question, the world's heaviest capacity land based crane is essentially an upgraded version of the AL.SK190's, which are currently completing projects in the Middle East.



The AL.SK350 is being built to accommodate a long term project based in Brazil, it will have a maximum lifting capacity of 5,000te using the strand jack system and is also fitted with a 2,000te winch system. It has a load moment of 354,000tm (which is some 77% higher than its nearest rival), and a main mast length of 141.2m. It can also be fitted with a fixed 120m jib.

During their technical evaluation OSX found that the AL.SK350 was the only crane capable of installing fully assembled modules from one lifting location, without the requirement to rotate the Hull and/or relocate the crane. The savings in downtime and schedule this offered, as well as being able to install fully assembled modules, was influential in their technical assessment.

In addition the AL.SK fleet of cranes are now a tried and tested concept and are proven to offer significant cost savings to clients in differing applications, particularly in Oil & Gas, Refining, Petro-Chemical and Civil Construction markets. Ronald Hoefmans, Group Technical Director at ALE said: "We are always striving to keep innovation at the forefront of what we do, and continually creating new concepts to push the boundaries in the heavylift market. Innovation is one of the company's core values, and we are pleased to see yet another concept from the drawing boards of our R&D facility, being built to offer solutions in the industry".

Michael Birch, Regional Director at ALE said: "We are very pleased to be able to support OSX in their new Shipyard Facility. We understand that OSX undertook a detailed technical evaluation of lifting options, not only floating cranes but also heavylift cranes from mainstream manufacturers and other heavy lift companies. We are proud that after such a process OSX selected ALE and identified the SK350 as the best technical solution".

ALE ANNOUNCES JOINT VENTURE WITH AG&P TO BRING LATEST INNOVATION FOR THE OFFSHORE MARKET



The new venture 'AG&P ALE Ventures Pty Ltd' will be working to deliver an innovative solution to the offshore market.

The partnership brings the high end, high quality manufacturing of AG&P together with innovative engineering of ALE, providing a winning solution to the Australian Gas producing Industry.

The innovation itself is a module offloading facility transition pontoon, which will provide considerable time and cost saving for clients, by enabling load-in operations for loads up to 17,000te to take place regardless of tidal conditions.

Due to tidal variations in North Australia, there is currently only a small window of time for load-in's, the new system however will provide surety in schedule by ensuring a load-in window that is not dependent on tidal conditions.

Paul Kelly, General Manager at ALE said: "The collaborative working between companies has enabled us to produce this latest concept. Due to the tidal conditions in this part of the world – which can vary up to 8m – and with high wind speeds, slipping behind schedule due to environmental factors can be common, and can have a major impact on projects. By working together AG&P ALE Ventures can provide a solution to these challenging conditions and reduce the risk of project delays significantly."



## **HSQE**

As one of ALE's core values, HSQE standards are set across the company globally. This edition we take a closer look at HSQE within Latin America.

Maximiliano Pablo Ozomek is the HSQE Advisor based in Argentina, and overlooks projects completed by the Latin American region as a whole.

Working in locations anywhere from the Peruvian rainforest to high altitudes in the Chilean mountains, the team has additional considerations to take into account due to environmental factors.

This year the team has been working in unusual conditions for a project at high altitude. Located 4,500 metres above sea level and with temperatures reaching -20C, the operators have come against some challenging conditions.

To ensure the safety of themselves and others on site ALE works to rigorous procedures and when attending sites the teams are briefed on health and safety. Where there are environmental factors such as difficult weather conditions, tailored sessions are given to ensure

all staff are aware of anything to look out for, and trained appropriately to deal with a host of situations.

In such conditions HSQE must cover not only potential incidents, but also potential illnesses that can be attributed to environmental factors, ALE equips employees with the resources and knowledge to minimise the risk of illnesses.

It is not only the staff that are considered when working in unusual conditions, it is standard practice that all equipment is thoroughly tested before use. A document log is kept of the results each time the equipment has been tested, which not only helps the engineers to ensure safety, but provides a track record of equipment.

As a region Latin America are striving to set an example with the standards of HSQE that are met. The new yard facility, located in Argentina, is being built taking into account the considerations, and requirements, of the ISO standards, and will provide the region with a centre of excellence where best practice can be shared amongst colleagues.

The company standardisation ensures ALE stays at the forefront of HSQE within the industry, and is particularly evident in branches where ALE's global standard surpasses those of the region.

Maximiliano Pablo Ozomek, HSQE Advisor at ALE said "Due to the vastness of the region we often have to work under conditions that can be unpredictable, we therefore have effective processes in place to ensure that everyone is equipped with the knowledge and information to work effectively under sometimes extreme conditions."



## branch focus: Australia

In each issue, New Heights takes an in-depth look at the service offering and recent projects of a different ALE branch. In this edition, we look at ALE's Australia branch.

#### **ALE BRANCH FOCUS – AUSTRALIA**

ALE has been working throughout Australia for a number of years, and has worked on some major projects including the transport of modules for the Worsley Efficiency and Growth Expansion Project, based in Collie, Western Australia, and the Chevron owned Gorgon project in Henderson.

Since establishing a permanent base, ALE's Australian business has grown significantly in terms of office locations and personnel. We currently employ over 50 people covering disciplines such as corporate management, accounts, project management, HSQE, engineering, and operational staff.

The equipment fleet is also rapidly expanding, including 4 new Kenworth C509 Prime Movers (240te GCM rated capacity) that are custom built for heavy haul operations. The specification for this purchase was based on ALE's worldwide experience, coupled with the requirements for local conditions in Australia.







## BHP BILLITON IRON ORE JIMBLEBAR PROJECT

ALE has started work on the BHP Billiton Iron Ore Jimblebar project. As part of the mine expansion ALE has received three of a total ten shipments from Port Hedland, and transported 500km from the port to the Jimblebar mine site.

The loads shipped from China consisted of structural steel modules which are integral to the assembly of a production plant that processes Iron Ore for export, primarily to China.

The loads were transported from the quay side using up to 60 axles of SPMT, to an area within the port where they could be transferred to 160 axles of conventional trailers, for road transport using up to 10 prime movers.

The 500km route saw the loads, weighing up to 320te, transported south of the port, along the Great Northern Highway popular with tourists. The road was closed between parking bays to allow traffic to overtake.

A total of 35 ALE staff are currently working on the project, from project managers to operational staff and engineers.

#### **ALE ANNOUNCES AUSTRALIAN JOINT VENTURE**

ALE has announced that its current Australian branch will join Gladstone based Australian heavylift, haulage and crane company, ECR.

Under the agreement ALE ECR Heavylift will combine resources under a single point of contact for clients, offering the benefits of a local company, teamed with the global expertise and resources of an international business.

ECR heavylift and transport company was established in 1995, the company is based in Gladstone, with operating centres in Biloela and Moura, Central Queensland. ECR own a first class fleet of cranes accommodating weights from 7te to 500te, a fleet of hydraulic modular trailers, specialized jacking equipment, and lifting equipment working primarily within the heavy industrial and mining industries.

The impressive fleet owned by ALE boasts a range of heavylift solutions including the innovative AL.SK crane fleet and the

Mega Jack, capable of lifting in excess of 60,000te.

The joining of two such companies whom share the same core values in safety and innovation will truly bring the Australian market a first class solution provider.

Paul Kelly, Director at ALE ECR said: "We are pleased to announce the joint venture and are looking forward to working as ALE ECR within the region. Combining our capabilities and resources will enable us to offer a fuller solution to our clients. With the local history of ECR and the global backing of ALE, the companies complement each other and working together simply makes sense."

Kane Davison, Director at ALE ECR said: "The senior management team at ECR are pleased to confirm details of the joint venture with ALE.

We have always strived to offer the best service possible and have considerably



expanded the business and capabilities to meet client needs over the years, this new venture will enable us to expand those capabilities that we offer yet again. ALE ECR will offer the complete heavylift and transportation solution, capable of lifting anything from 7te to 60,000te."

For more information and to explore ALE ECR's services please visit our website www.ale-ecr.com.au

#### **GORGON PROJECT, AUSTRALIA**

ALE is successfully completing work in Henderson, Western Australia for the Chevron-operated Gorgon Project; one of the world's largest natural gas projects, and biggest single-resource natural gas project in Australia.





The structural steel top platforms weighing between 150-490te each are delivered to the Henderson site by barge. The top platforms are off-loaded by ALE's Self Propelled Modular Transport (SPMT) and temporarily stored on site. ALE designed and installed an impressive 50-metre-high lifting gantry which rotates these top platforms 180 degrees.

The jetty foundations, known as 'caissons', are constructed on site by the main contractor, Saipem-Leighton Consortium, and weigh up to 2,500te each. ALE elevates the caissons by jacking to allow the positioning of its SPMTs underneath with subsequent transportation to the gantry.

The caisson is carefully positioned under the gantry using survey control. The top platforms are lowered by ALE's gantry into the pre-formed voids within the caissons resulting in a combined, single-structure weighing a maximum of 3,760te.

ALE transports the combined structures post fit-out to the Henderson wharf where they are loaded onto a semi-submersible barge.

Ballast calculations performed by ALE, and close liaison between ALE's SPMT crew and the barge crew, achieve safe, co-ordinated loading onto the barge prior to its extensive journey to Barrow Island.

The services and equipment utilized by ALE for the project include:

- 6 x 650te jacks complete with stroke meters facilitating computerized automatic jacking
- SPMTs at various configurations up to 128 axles
- Lifting gantry consisting of 4 No. A-frame support legs; 2 No. 46m span main beams; 3 No. skidded bridge beams of 19.5m span; 4 No. 200te strand jacks; and 2 No. 500te strand jacks

Mike Ward, Regional Project Manager for ALE's Australia branch said: "ALE is proud











#### **MAJNOON PROJECT, IRAQ**

ALE has started work on a project for the Majnoon Oil Field, in Iraq.

ALE is the only major global heavylift transportation and installation company to establish a permanent base in Iraq and won the contract to complete the barging, transportation and installation of over 100 items weighing up to 150te. The work is part of a project to build two new crude processing plants with a total capacity of 50,000 barrels per day.

The major focus of the project is the execution of the logistics which has been tailored for the challenging environment and terrain through Iraq, which includes crossing two rivers. To complete the scope of work ALE is barging the modules from the UAE, through the gulf and the Shatt al Arab River from AI Faw to the MOF jetty in Iraq for consequent heavy haulage to site and the final lifting and installation to foundations.

ALE is utilizing a variety of equipment during the project including barges, crawler cranes such as CC2800-1 and CC2600, heavy duty prime movers and a number of hydraulic axle lines lead by members of staff whom are protected by armed security teams during all operations.

All marine operations carried out at the jetty are controlled and coordinated by the Marine Engineering division at ALE.

Alberto Pittaluga, Country Manager at ALE said: "With more than 20 years of experience in the Middle East, and our Basra branch opening in 2011, we are pleased to see our first project in Iraq underway. The project that began late last year is on track for completion at the end of 2012.

In addition ALE is in the process of expanding its presence in the country and soon will inaugurate the operational Base at the Free Zone of Khor al Zubair nearby Um Qasr Port, and strategically close to the major Oil & Energy projects site locations in the south area of the country.

Working in Iraq presents its own considerable set of challenges with regards to accessibility and security; these challenges are carefully considered and overcome by the team operating in Iraq."





## case studies



#### JACKING, LOADING AND TRANSPORT, SOUTH AFRICA

**OVERVIEW:** ALE carried out the jacking up, loading, transport and jacking down of a research vessel in Cape Town Harbour, South Africa.

**SERVICES REQUIRED:** The 320te vessel was jacked up using strand jacks to a height of 1.3 metres to allow for the 20 axles of SPMT to be positioned underneath. The load was then transported from its fabrication unit to the Cape Town Harbour where it was jacked down to await launching.



#### **RELOCATION OF CRANES, PARANAGUA, BRAZIL**

**OVERVIEW:** The relocation of two portainer cranes was successfully completed by ALE in Paranagua Harbour, Brazil.

**SERVICES REQUIRED:** Each crane, weighing 1,030te, was transported from its assembly position to the final location over railways within the port. ALE used a total of 46 axles of SPMT to complete the move.



#### **INSTALLATION OF BRIDGE SECTION, PONTEVEDRA, SPAIN**

**OVERVIEW:** ALE has successfully completed the installation of a 42 meter long bridge section over Lerez River in Pontevedra, Spain.

**SERVICES REQUIRED:** ALE utalised hydraulic cranes to position the section into a floating system and then utilised the Lerez River's high tide in order to float the 100te structure up the river with the minimum current. Once directly under the installation position four steel cantilever structures, composed of steel beams and a hydraulic lifting unit with 70te capacity, lifted the section into place.



#### TRANSPORT AND INSTALLATION OF LOCOMOTIVES, MAURITANIA

**OVERVIEW:** ALE completed the transport and installation of seven locomotives in the port of Nouadhibou, Mauritania.

**SERVICES REQUIRED:** ALE received the locomotives from vessels at the harbour. The locomotives were transported using 20 axles of SPMT from the quay side to the offloading area where ALE had erected a gantry. The gantry was fitted with four strandjacks, each with a capacity of 70te, to lift the locomotives from the SPMT's to the railway below.



#### **JACKET LOAD-OUT AND BALLASTING, CHINA**

**OVERVIEW:** ALE was awarded the contract to load-out a 21,234te jacket onto a sea going barge in Chiwan Port, China.

**SERVICES REQUIRED:** To complete the load-out ALE used 4 SJ-850 strand jacks – each with a 900te capacity – to transfer the jacket in two stages. Stage one involved transporting the jacket from its fabrication facility 60 metres to the quay edge. Stage two involved moving the 21,234te jacket a further 137 metres to the stowage location on the barge. Travelling at a speed of 16 metres per hour, and using specialist lubricant on the skid tracks to reduce static friction between the ground and the piece, the jacket was loaded out. ALE also used specialist ballasting equipment to ensure the load-out was successful. To ensure that the barge elevations were kept within +25mm/-10mm in relation to the quay the team used two laser transmitter modules which located on the quay side send lasers to eight separate targets aboard the barge to give absolute accuracy.





#### ASSEMBLY, TRANSPORTATION AND BARGE TRANSPORT, UAE

**OVERVIEW:** ALE was responsible for the assembly and transportation of seven Liebherr ship to shore cranes from the Mina Zayed Port UAE.

**SERVICES REQUIRED:** ALE assembled each 1,000te crane and used a configuration of SPMT's to transport them to the barge where the team transported them to Shuaiba Port in Kuwait.



#### **DISCHARGE, TRANSPORTATION AND LIFTING, UK**

**OVERVIEW:** ALE undertook the transportation and lifting of process equipment including slug catchers weighing up to 265te as part of a project to bring gas from the Breagh discovery to Teesside, UK.

**SERVICES REQUIRED:** The slugcatchers, which are needed for processing gas from a new North Sea pipeline, were manoeuvred using configurations of SPMT. The loads were offloaded onto steelwork using the built in hydraulic system on the SPMT's. The vessels were then moved from the dock to the gas process plant during the evening to minimise disruption to local residents and other road users. A rolling road block was implemented over four nights while the transportation took place. During the transportation stage the slugcatchers were moved on SPMT bogies with bolsters fitted.

Once on site the vessels were lifted using ALE's 1,200te capacity AK912-1, other site activities were able to be continued as the operation caused no disruption to the plant due to the position of the crane outside the live plant.



#### **BRIDGE EXCHANGE, THE NETHERLANDS**

**OVERVIEW:** ALE completed the jacking, load-out, sea transport and exchange of a bridge in Amsterdam, The Netherlands.

**SERVICES REQUIRED:** To complete the exchange of the previous 832te bridge with the new 954te bridge ALE used climbing jacks to weigh and jack-up the bridge to install 48 axles of SPMT below. The bridge was then transported from the fabrication yard in Gorinchem, The Netherlands, and loaded out to the barge. After load-out the bridge weight was transferred to four climbing jacks with a capacity of 285te each and the SPMT's were removed from the barge. The bridge was jacked down and secured for transport to Amsterdam.

On arrival in Amsterdam the bridge was jacked up to the final installation height leaving the distance between the water level and the underside of the bridge at 9 metres.

The road over the bridge was closed over a weekend with only a 12 hour timeframe for the removal of the old bridge and installation of the new one. To remove the previous bridge a barge equipped with towers and long beams was mobilised to receive the bridge after jacking down and transported for demolition in Amsterdam.

## case studies



#### TRANSPORTATION AND LIFTING, UK TO CHINA

**OVERVIEW:** ALE completed the loading, transportation including sea transport, and lifting of a 330te Stator from a factory in Stafford to a power station in Hong Kong, China.

**SERVICES REQUIRED:** ALE utilised 14 axles of SPMT to receive the Stator and transport it from the loading bay to ALE's lift n lock system positioned on the factory forecourt. The lift n lock system then loaded the Stator onto a 26 axle girder frame for onward transport. Once at Ellesmere Port ALE used a Demag TC2800-1 to lower the Stator into the hold of the vessel. ALE's responsibility ended once the Stator had been offloaded to the trailer at the power station berth in Hong Kong.



#### HANDLING AND LOADING OF ANCHORS, SPAIN

**OVERVIEW:** ALE was responsible for the handling and loading manoeuvres for eight suction anchors for transportation from fabrication depot in Spain to an offshore gas plant in Israel.

**SERVICES REQUIRED:** Six of the eight anchors were a height of 18 metres and weighed 130te the remaining two weighed 92te and were 11.5 metres in height.

The smaller anchors were loaded to SPMT by 4 jacking systems with a capacity of 60te each, 12 axles of SPMT were positioned underneath and transported the loads to the quay where they were lifted onto a barge.

The larger anchors were loaded onto SPMT's by use of a gantry crane, the loads were individually transported to the quay using 12 axles of SPMT. The final lift of the anchors onto the barge was completed by the use of the main crane.



#### TRANSPORTATION OF BOILERS, BERKELEY, UK

**OVERVIEW:** ALE successfully completed the jacking, skidding and transport of five redundant boilers from the UK's first built nuclear power station.

**SERVICES REQUIRED:** The boilers weighing 300te each, measuring 22m long, and 5m wide, were transported in three separate moves from the former power station which ceased generation in 1989.

The first move involved the use of an 18 axle conventional trailer, two push-pull heavy ballast tractors and various other support and escort vehicles. Utilising a further 36 axles of conventional drawbar trailers, connected to four push pull heavy ballast tractors, ALE completed the transport of the remaining four boilers two at a time.

The boilers were transported four miles through Berkeley town centre to Sharpness docks, where they were rolled onto a specialist vessel which then transported them via the Severn to Avonmouth. From Avonmouth the boilers will be transported to a sea going vessel to make the final journey to Nyköping in Sweden. Once the boilers reach Sweden they will be smelted and up to 90% of the metal will be returned for use in the UK market.





I enjoy the diversity in my role, no two days are the same.

## Maria Eugenia Melzi

## Logistics Analyst - Argentina

#### Q: When did you join ALE?

**A:** I started working for ALE in late 2010 as an Operations Assistant offering admin support to the operations team, however today my position in the company is Logistics Analyst based in the operations department.

#### Q: What activities does your current role include?

**A:** My day to day activities include coordinating both temporary and permanent imports and exports of equipment required for various projects, negotiations and relations with suppliers, freight forwarders and customs.

I also look after the coordination and monitoring of all equipment from origin to destination. I also ensure that the correct personnel are on site for projects and organise all required documentation.

#### Q: How has the department changed since you have been there?

**A:** Since I started the company has grown significantly within the region and recruiting has seen an increase in skilled personnel, enabling us to develop and offer the best solutions to our clients.

#### Q: What are the main challenges of your role?

**A:** As a logistics analyst my main focus is to ensure that all required personnel and equipment arrive at the site for the start of the project, this can be challenging when we face issues such as customs, however most problems are dealt with proactively and through experience. By allowing extra time for any eventuality and having the relationships with suppliers, customs agents and freight forwarders we are able to achieve our goals within the required time frame.

#### Q: What do you enjoy most about your role at ALE?

**A:** I enjoy the diversity in my role, no two days are the same and I love to assist with the organizational requirements of the operations team. I also enjoy the level of responsibility that I am given in my role, in the time I have worked for ALE I have been able to gain a great deal of knowledge and progress to a more responsible position within the team.

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