

The news that leaves you...

Spel bound

from SPEL Products



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Issue 3



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Cyprus

A 'golden green leaf thrown into the sea'

Cyprus is situated in the north eastern part of the Mediterranean Sea and to the south of Turkey. It is the largest island in the eastern Mediterranean and is renowned since ancient times for its mineral wealth, superb wines and produce, particularly clothing, footwear and foodstuffs which includes potatoes and citrus fruit.



Cyprus became independent of Britain in 1960 having been a crown colony since 1925, but there has been a long-standing conflict between the Greek Cypriot majority and the Turkish Cypriot minority. An invasion of the island by Turkish troops in 1974 resulted in a petition of the islands and in 1975 a de facto Turkish Cypriot state in the northern third of the country was created.

The country is now divided into two states. Firstly the Republic of Cyprus (ROC), predominantly Greek in character occupying the southern two thirds of the island. This is the original and still the internationally recognised government of the whole island. The Turkish Republic of Northern Cyprus (TRNC) was proclaimed unilaterally in 1983 on territory secured by the Turkish Cypriot population.



The rugged island resembles a saucepan with the handle extending north-eastward. It has a 400 mile (640 KM) coastline with long sandy beaches. Two mountain ranges, the Kyrenia Mountains extend 100 miles parallel to the northern coast and the Troodos Mountains are in the south and south-west. Mount Olympus dominates this range at an elevation of 6401 feet (1951m), the island's highest peak.

Between the two mountain ranges lies the Mesaoria Plain (which means 'between the mountains'). This is the principal cereal growing area.

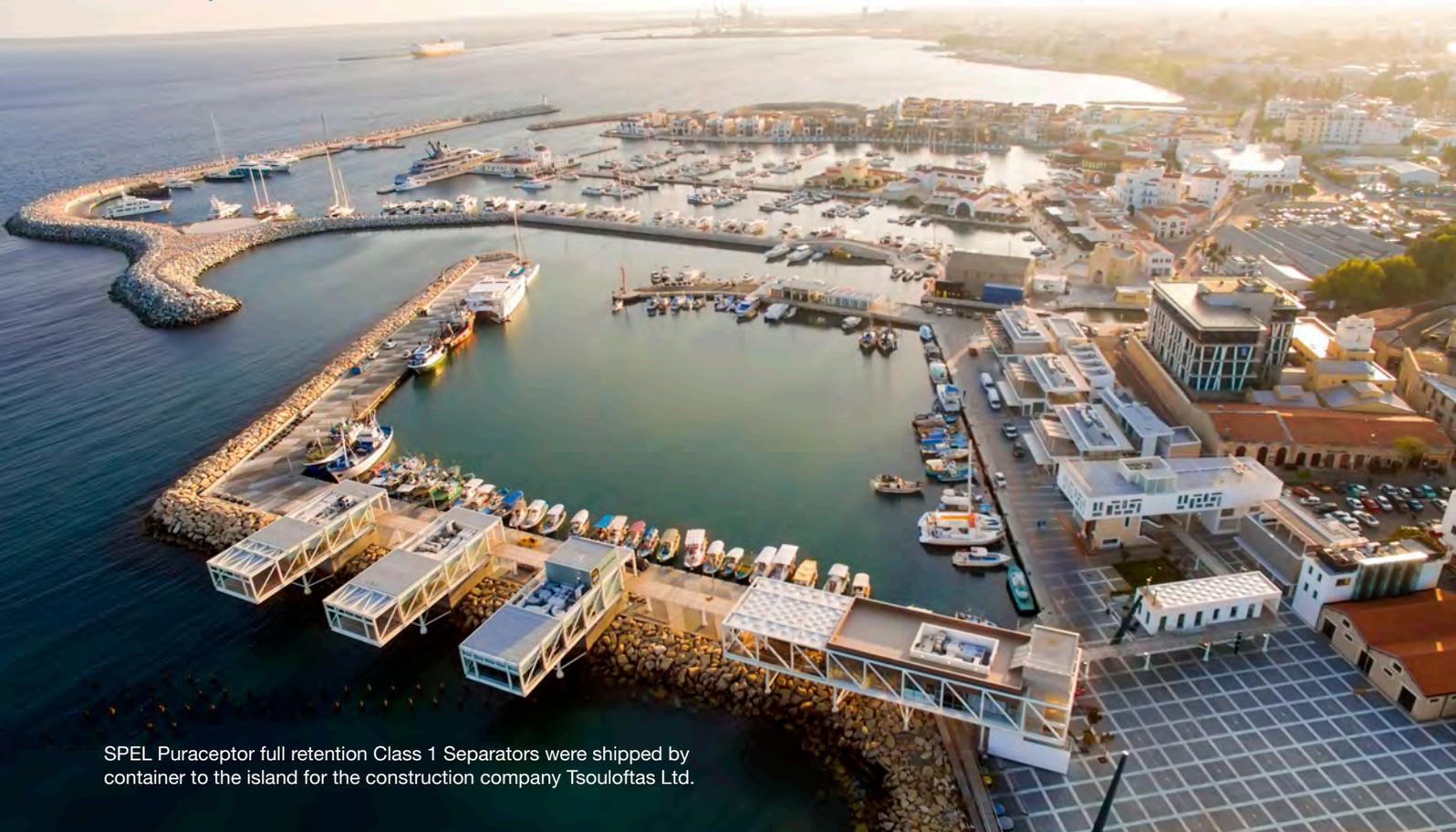
Cyprus has an intense Mediterranean climate, hot dry summers and rainy winters. The average daily maximum temperature in summer is 90-98°F (30-37°C) and an average daily minimum in Nicosia of 70°F (21°C). In winter the temperatures drop to between 40-60°F (5-15°C). In the mountain areas temperatures drop below freezing and experience heavy snowfall.

SPEL Products have been associated with Cyprus for many years, exporting two large SPEL Stormceptor fuel/oil Separators (3.5m dia. x 14m long) to the Vasilikos Power Station in 1996. A further two SPEL Puraceptors were shipped in 2012.



Five large SPEL Stormceptor class 1 by-pass Separators with silt capacity were supplied to treat large flows from 125 to 350L/second.

The other important construction project is the **Limassol Marina** – the country's first residential marina.



SPEL Puraceptor full retention Class 1 Separators were shipped by container to the island for the construction company Tsouloftas Ltd.

Our latest exports are to RAF Akrotiri which is the airhead for British Forces Cyprus, receiving from and despatching to the UK all British forces, Cyprus personnel and their families as well as all other UK and Allied servicemen serving on or around the island. This base originally established in 1955 has been used extensively in notable operations peaking in the 60s and 70s. The backbone of the Cyprus force were the four squadrons of English Electric Canberras until they were replaced by two Avro Vulcan squadrons which had better night and all-weather capability.

For air defence, Cyprus had a resident fighter squadron of Hunter aircraft with F Mk 6s and later FGA Mk 9s (1958-59). These were replaced by Gloster Javelins FAW Mk 9s and then English Electric Lightning F Mk 6s. As in the United Kingdom area, the air defence task became more and more to ward off Soviet-built aircraft intent on probing



Typhoon aircraft taking off.

local air defences. Gradually squadrons were disbanded or withdrawn. However Britain has retained the sovereignty over her military bases in Cyprus and the RAF's airfield facilities.



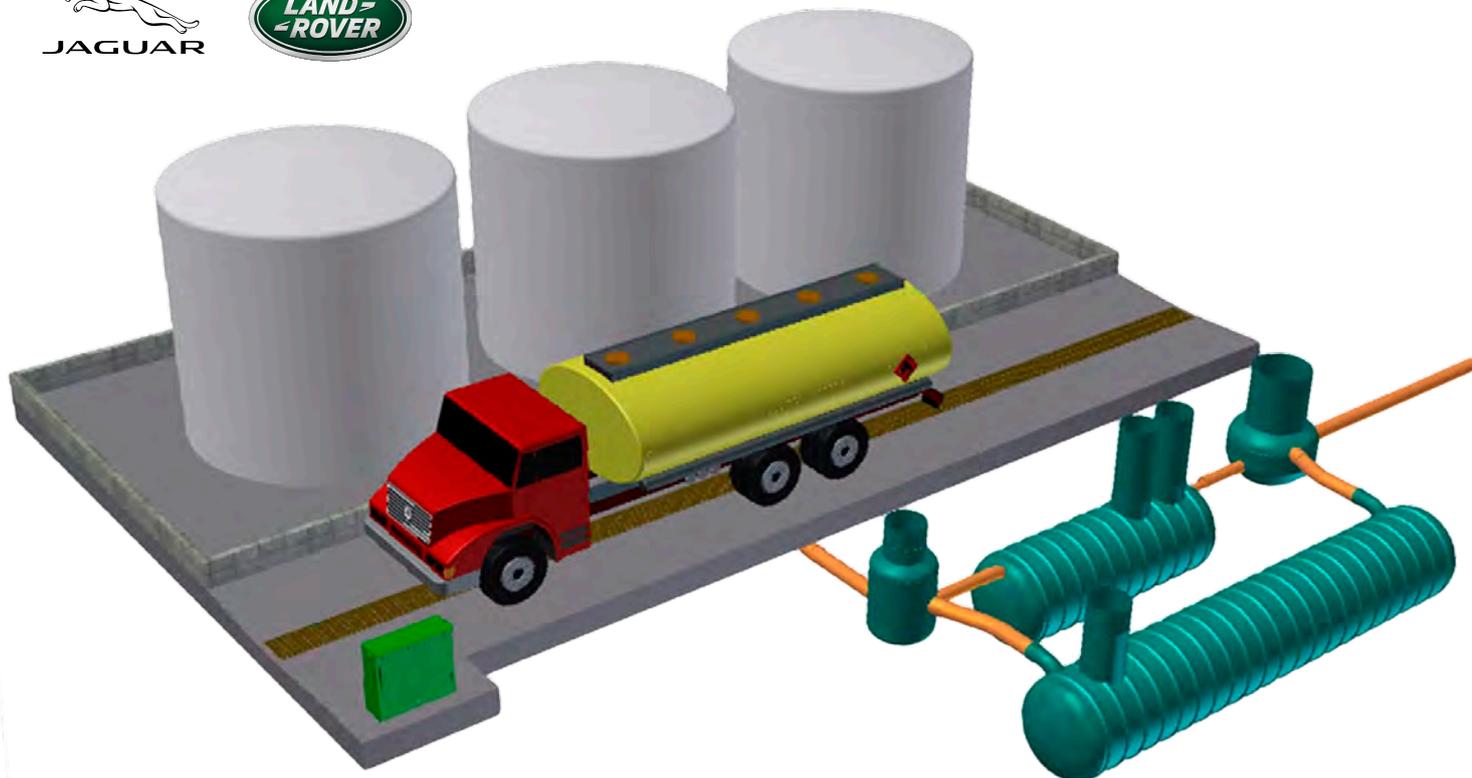
RAF Akrotiri is the Red Arrows' pre-display season training and selection camp. With dedicated airspace to the south of the peninsula, it can accommodate a variety of academic and air combat manoeuvre training with almost guaranteed good weather. It also has training areas suitable for land-based activities, including a mock Afghan compound.

Station-based operational flying is the preserve of 84 Squadron and its Griffin helicopters. These provide Commander British Forces primarily with Search and Rescue support, for which they regularly train with the Republic of Cyprus Police and National Guard Air Command. The helicopters are also used for communications, trooping and fire-fighting duties.

RAF Akrotiri is seeing the whole airfield being refurbished to receive the RAF's Voyager fleet and the ability to accommodate the most wide-bodied aircraft for a number of years.

Jaguar Land Rover

SPEL Automatic Monitoring and Containment Systems have been installed at the new Jaguar Land Rover Engine Manufacturing Centre



Protecting drainage outfalls from discharging pollutants is key to safeguarding our environment, prosecution, heavy fines and clean-up costs.

SPEL Pollution Monitoring Systems are being installed together with provision for containment of spillages to provide 24/7 protection.

Spillages and leaks that can occur in the handling and storage of hydrocarbons and chemicals are always a danger to our environment. Therefore, with such high profile developments as the new engine plant at Jaguar Land Rover, any potential risks must be carefully considered at the design stage.

The Special Products Division of SPEL Products designs manufactures and commissions pollution monitoring and containment systems which are in operation 24/7.

Fuel handling & storage areas

SPEL Pollution Monitoring, Diverting and Containment Systems typically comprise of a diverter chamber followed by a SPEL Puraceptor (two chamber model) full retention Class 1 fuel/oil Separator to remove hydrocarbons as a result of minor spillages washed down during normal rainfall events.

Following the SPEL Puraceptor is the monitoring and valve chamber. The monitoring system incorporated is designed to detect the pollutants posing a risk. The level of concentration of these pollutants can be set to within the site's allowable discharge limits. When exceeded it closes off the drainage route and divert the contaminants to containment.

If such a spillage occurs and fills the containment tank the pollutants require sucking out and dealing with by a specialist waste company.

Unless a spillage occurs the discharge from the SPEL Puraceptor continues to the drainage system and off site.

Aldi Distribution Centre



This new regional distribution centre and offices for discount supermarket chain Aldi on the outskirts of Cardiff will create more than 400 new jobs and is being backed with financial support from the Welsh Government.

It is anticipated the investment in the new centre could result in the opening of up to 10 new stores in Wales over the next five years with the potential to create a further 500 jobs.

The new centre will supply stores in South Wales and the South West of England creating many jobs in a variety of roles from graduate level to senior management and operational roles.

The £59m investment is supported by the Welsh Government with £4.5m business finance which ensured the project was secured for Wales.

Funding support is towards the abnormal land development costs of more than £5m to get the site ready for construction.

SPEL Products supplied:

- Seven Spel Separators
- Five Package pump stations

The International Quarter London

Located at the heart of Europe's largest urban regeneration in Stratford, the project will deliver four million sq. ft. of Grade 'A' office space, 333 new homes and community facilities within a 22 acre (c.9 hectare) site.

With the vision to create London's new home for progressive businesses, The International Quarter London benefits from an abundance of green space and fresh air, access to some of the world's most forward-thinking cultural institutions, unrivalled transport connectivity and a workplace design that has employee wellbeing at its heart.



Two 50,000 litre capacity SPEL Tankstor sprinkler reservoir tanks supplied to Hall & Kay.



High lift from street over building to location at the rear.

RAF Brize Norton

SPEL Products at RAF Brize Norton

RAF Brize Norton in Oxfordshire is the largest station in the RAF and is home to the Strategic and Tactical Air Transport Force as well as the Air to Air Refuelling Squadron.

This Air Base is extremely busy, being the air hub for all British troops and equipment moving to and from the various theatres of conflict and training around the globe. It has undergone a major expansion program in recent years to accommodate the consolidation of this vital role from a number of other bases. New facilities have been built to house the introduction of 3 new aircraft types. The Boeing C17 Globemaster is the RAF's big lifter being able to swallow a Chinook helicopter but it can also be configured for troop transport or Medivac.

The Airbus Voyager has two key roles. Firstly as a liner style troop transport and also as a tanker providing in flight fuel to other aircraft. The newest is the Airbus A400 Atlas, the first of which arrived in November 2014. This aircraft will progressively replace the Lockheed C130 Hercules by 2022 in the equipment, paratrooper and humanitarian support role.



A C17 aircraft taxis past one of the new Voyager aircraft with its hangers under construction.

New hangers and service facilities for these aircraft have been built at RAF Brize Norton. SPEL Products' Separators have been installed to ensure the best quality pollution control which is an integral part of the drainage network for the huge structures and surrounding parking areas.



Airbus Voyager aircraft in-flight refuelling two Typhoons

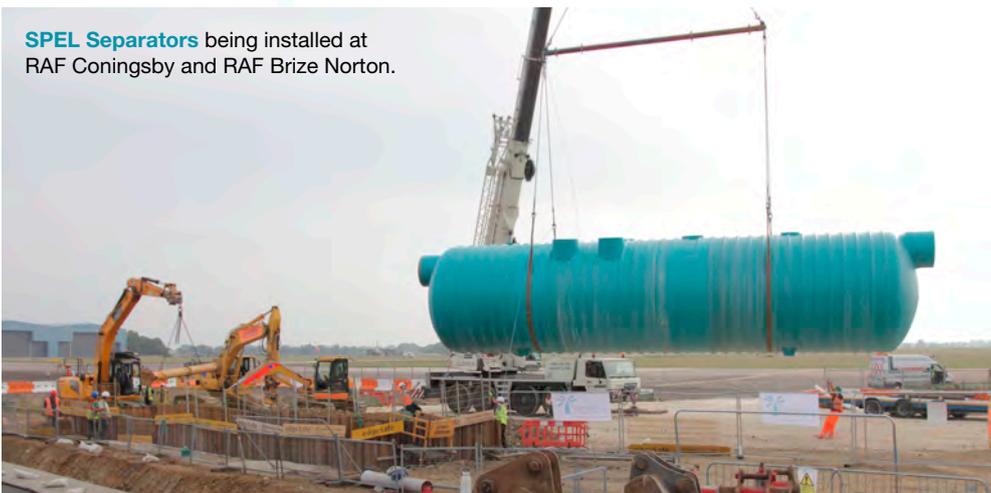


The RAF's vital Air to Air Refuelling role (ATAR) has been taken on by the new A330-200 Voyager aircraft. This requires special fuel handling and storage facilities on the Air Base with associated pollution protection from SPEL Products. This facility is the backbone to increasing the range of the RAF's aircraft around the globe ensuring they can reach even the most remote parts to support and protect British interests.

Down Between the Engines? One of the most notable differences between Atlas and other turboprop aircraft is that the two propellers on each wing turn in opposite directions (towards each other). This 'Down Between the Engines' counter-rotation produces a more symmetrical airflow over the wing, which improves lift, aircraft handling and stability. As well as allowing a reduction in the structural weight of the wing, the arrangement reduces the adverse yaw in case of an engine failure, gives a 4% increase in the lift at low speed and reduces the level of vibrations and therefore the noise inside the aircraft.



SPEL Separators being installed at RAF Coningsby and RAF Brize Norton.



SPEL Products has a long history supporting the UK's Armed Forces and is proud to continue this tradition with reliable high quality pollution control systems.

Prologis

Logistics centre – Rugby Gateway

Rugby Gateway is located at the heart of the Logistics 'Golden Triangle'. It is immediately adjacent to junction 1 of the M6 motorway and in a very strategic position for logistic operators.

Prologis has taken advantage of this location to build an advanced operation facility. SPEL has provided the essential fuel/oil separators to cater for the large area of hard standing and protect the main outfall from pollution.



This SPEL Purceptor Class 1 full retention Separator treats 800 litres/second and meets the European Standard discharge quality.



Rugby Gateway is a 120 acre prime logistics site.



A1 contract

Leeming to Barton, North Yorkshire Region

Start date: Early 2014

End date: Mid 2017

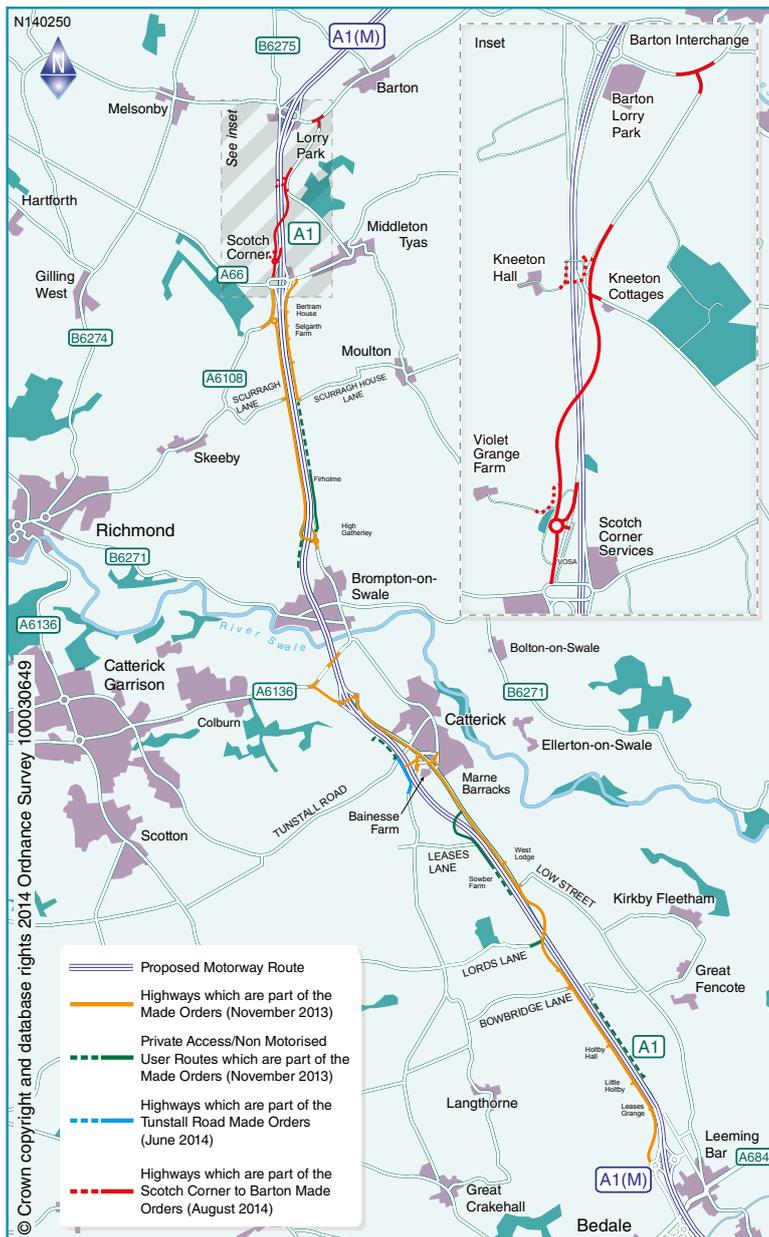
Cost: £380 million

Main contractor: Carillion Morgan Sindall JV

This 12 mile section of the A1 between Leeming and Barton carries between 59,000 to 69,000 vehicles per day. The old section has poor alignment with many side road junctions, farms and field accesses. The accident rate is broadly in line with the national average for older dual carriageways, but the severity ratio is significantly higher. Incidents often lead to full closure of the route with lengthy diversions. This is the only section of non-motorway on the strategic M1/A1(M) route between London and Newcastle.

The A1 Leeming to Barton upgrade replaces the existing dual carriageway with a new three lane motorway. It includes the provision of a new Local Access Road alongside the new motorway, improving safety for local traffic from the surrounding communities. Access to the strategic road network is via a new grade separated junction at Catterick and an improved junction at Scotch Corner.

The primary objective of the project is to improve safety and to improve journey time reliability between London and major urban centres in the north of England and Scotland.



SPEL Stormceptor model 6300C1/SC (with silt capacity) suitable for a drainage area of 16.7 hectares.

SPEL supplied:

Puraceptors; P100/1C, P200/1C,
 Stormceptors; Two 480C1/SC, 460C1/SC,
 6300C1/SC and 340C1/SC
 Complete with SPEL Solar SET automatic
 oil/fuel alarm/monitoring systems

Leeming ●

●
Barton

Tamale International Airport, Ghana



SPEL
Stormceptor

Tamale Airport project

Tamale Airport serves the city of Tamale, Ghana, supporting both public and military operations and handling 200,000 passengers a year. The airport is currently undergoing a redevelopment project to upgrade its status to an international airport.

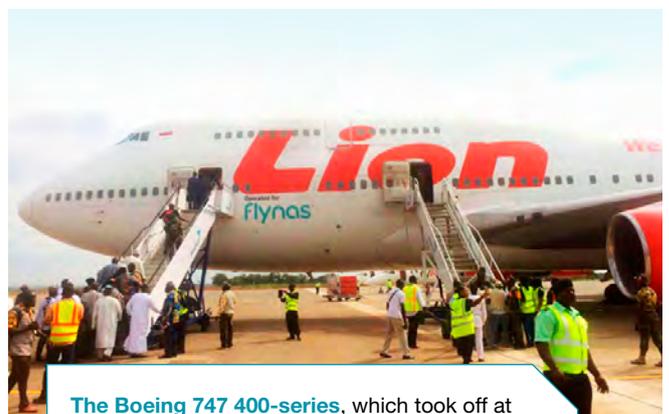
“Upgrading the airport is expected to stimulate economic activity in the region.”



Proposed development



Phase one of the upgrade was inaugurated in August 2016 at a cost of \$130m. The airport is now capable of accommodating wide-body aircraft. The first commercial flight carrying Hajj pilgrims flew to Mecca, Saudi Arabia, from the upgraded airport following its inauguration.



The Boeing 747 400-series, which took off at 15:40 GMT, carried 498 passengers to Mecca who participated in this year's Hajj activities.

Ghana

The country is a nature lover's delight

The country

Land area: 88,811 sq mi (230,020 sq km); total area: 92,456 sq mi (239,460 sq km)

Population (2014 est.): 25,758,108

Capital and largest city (2011 est.): Accra, 2.573 million

Monetary unit: Cedi

Wildlife in Ghana

Ghana is a nature lover's delight. It's sunny equatorial climate and fertile well-watered soils sustain an enchanting selection of wildlife, ranging from elephants to monkeys and marine turtles to crocodiles, as well as hundreds of colourful bird and butterfly species. More than 5% of the country's surface area has been accorded official protection across 16 national parks or lower-profile conservation areas.

The most popular tourist destinations are the vast Mole National Park in the northern savannah and the forested Kakum National Park near the coast.

Popular attractions include the sacred monkeys of Tafi Atome, a plethora of magnificent forests and waterfalls around Amedzofe and the impressive forest-fringed Wli Falls, the tallest cascade in West Africa.

Ghana is highly alluring to birdwatchers, with 725 species recorded in an area comparable to Great Britain. For casual visitors, it is colourful savannah of birds such as gonoleks, rollers, parrots and weavers that tend to catch the eye, as well as the eagles and other raptors that inhabit the drier north.

Paga Crocodile Pond



Paga Crocodile Pond, located in the north-eastern border of Ghana is a sacred crocodile sanctuary.

Although crocodiles are considered wild creatures, the Paga crocodiles are friendly and coexist with humans.

This relationship between the crocodiles and humans continues to baffle the minds of many. This is in contrast to the perception of crocodiles as dangerous.

It is a customary offence to harm, kill or show any sign of disrespect to the crocodile of Paga. It is not uncommon to find children and or visitors sitting at the back of or

holding the tale of a crocodile without any harm.



Boaben-Fiema Monkey Sanctuary has a good number of the Black and White Colobus, Mona, spot nosed monkeys and a

variety of birds. The monkeys in the reserve are regarded as the children of the gods of the community; therefore they are neither hunted nor killed. A system of traditional taboos and their community enforcement protected the monkeys for generations.



New Unit 5



NEW assembly facility

The demand for the SPEL pollution control products, above and below ground tanks and monitoring systems continues to increase. To meet this demand and future expectations we are expanding our production facilities with a new purpose built building.

This modern facility will incorporate the latest equipment, gantry cranes, fire sprinkler system and energy saving lighting etc.

Production in this facility should commence in early autumn and will lead to greater output, greater efficiency and the reduction of lead times.

Cancer Research UK

SPEL Products support the valuable research work being undertaken by Cancer Research UK

Our vision is to bring forward the day when all cancers are cured.

In the 1970s, less than a quarter of people with cancer survived. But over the last 40 years, survival has doubled – today half will survive.

Our ambition is to accelerate progress and see three-quarters of people surviving the disease within the next 20 years.

1 in 2 of us will be affected by cancer in our lives. This is why it is so vital we are continuing to research into each and every type of cancer – that's all 200 types.

We receive no government funding so all of our vital research is funded by public donations: We literally

couldn't do it without you! We want survival in the UK to be among the best in the world so we're working to help prevent cancer, diagnose it earlier, develop new treatments and optimize current treatments by personalizing them and making them even more effective.

As well as research into science, your donations can help in other ways too. A £20 donation is enough to cover the cost of running our Cancer Chat for 1 hour, to be there to support anyone who has any concerns about cancer.

Fantastic people like you give their time, energy, and money to help us bring forward the day when all cancers are beaten. Thank you for joining their number and joining the fight against cancer. Cancer is happening right now. We couldn't fight it without you.



**CANCER
RESEARCH
UK**



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