Government Backs New Multi Billion Pound Seabed Harvesting Initiative

Lockheed Martin UK (LMUK) is at the heart of a potential economic opportunity estimated to be worth at least £1bn a year to the UK national economy through the harvesting of valuable polymetallic nodules from the Pacific Ocean floor.

Through a new wholly owned subsidiary, called UK Seabed Resources, LMUK has become the first commercial organisation to be awarded an exploration licence by the International Seabed Authority (ISA). Sponsored by the UK government, this licence gives authority to explore a 58,000 square kilometre area for tennis ball sized nodules, which could provide millions of tonnes of copper, nickel, cobalt and manganese as well as rare earth metals. These materials are used in the construction, aerospace, alternative energy and communication industries, among others.

Speaking at the UK Seabed Resources launch event in London, UK Prime Minister David Cameron said: “The award of this exploration licence to UK Seabed Resources is excellent news for British companies and British scientists, and the Government is extremely pleased to have supported it.”

“The UK is leading the way in this exciting new industry which has the potential to create specialist and supply chain jobs across the country and is expected to be worth up to £40 billion to the UK economy over the next 30 years. With our technology, skills and scientific and environment expertise at the forefront, this demonstrates that the UK is open for business as we compete in the global race.”

He also welcomed Lockheed Martin’s choice to use the UK as the base for the initiative and provide opportunities for UK suppliers. “Lockheed Martin has been investing in our country for many years and this is the start of something big.”

Polymetallic nodules are found in mud and silt some 4-6 kilometres beneath the ocean surface. Using technologies similar to that utilised in the North Sea oil and gas industry, they can be brought to the surface using a combination of remotely operated or autonomous underwater vehicles, pumps, suction and riser pipes. The exploration area awarded to UK Seabed Resources is some 1,500 kilometres west of Mexico and 4,000 kilometres south of Hawaii. Importantly, the company’s work is focused on the collection of polymetallic nodules and not manganese crusts which are found on hydrothermal vents.

Environmentally responsible collection of seabed nodules presents a complex engineering challenge but for UK Seabed Resources, environmental considerations are of paramount importance.

» Continued on page 2
Upgraded Merlin Helicopters Delivered

The Royal Navy is set to benefit from operating one of the world’s most advanced rotary wing platforms for anti-surface ship and submarine warfare following delivery of the first upgraded Merlin Mk2 by Lockheed Martin UK (LMUK) and its strategic partner Agusta Westland.

Under the Merlin capability sustainment programme (MCSP), 30 Royal Navy Merlin Mk1 helicopters are undergoing a series of sophisticated upgrades by LMUK’s Havant-based Integrated Systems business. This aims to address obsolescence issues and also reduce through-life operational costs.

MCSP enhances Merlin’s current critical multi-mission capabilities by the insertion of open system architecture. Improvements to the mission system include tactical computer and digital maps while a new human machine interface incorporates large area touch screen flat panel displays. There are also improvements in the radar and sonar system. In addition, Merlin Mk2s have been fitted with a glass cockpit and upgraded aircraft management system.

Through a separate contract, LMUK is also responsible for fitting major survivability enhancements to four of the Merlin Mk2 fleet. This involves integrating a defensive aids suite (DAS), fitting additional protection for crew and safety critical aircraft components. The integration of an electro optic/infrared (EO/IR) camera system, with full motion video downlink for enhanced situational awareness at stand-off distances, further improves the aircraft’s operational effectiveness.

Jeff Strezenetcky, Integrated Systems’ director helicopter programmes, said “The first Merlin Mk2s, adapted under the MCSP contract, have been delivered on time and to budget. This represents a magnificent team effort led by Lockheed Martin UK and Agusta Westland, supported by their supply chain partners, many of which are in the UK.”

“MCSP will deliver an overall cost saving of more than £500 million through the avoidance of obsolescence and is also forecast to reduce future support costs by more than £75 million.”

The Merlin helicopter, the world’s most potent submarine hunting helicopter, has been in service with the Royal Navy since the late 1990s. After thorough testing and evaluation, the aircraft entered front line service in 2000.

The Merlin fleet’s job is to find— and if necessary destroy— enemy submarines using state-of-the-art sonar buoys which are dropped into the ocean and Sting Ray torpedoes.

Beyond searching for submarines, crews also carry out traditional maritime helicopter duties including anti-piracy and drug-running patrols, surveillance and reconnaissance missions, search and rescue, and both passenger and cargo transfers.

The improved Merlin Mk2 will give the Royal Navy unrivalled capability to carry out its anti-submarine patrol and policing requirements, while enhancements will also significantly enhance the aircraft’s intelligence, surveillance and reconnaissance (ISR) capabilities. The use of open system architecture and commercial off the shelf (COTS) products, plus the provision for further technical insertion, will reduce both the cost and impact of obsolescence, sustaining the world’s best helicopter-based anti-submarine warfare capability well into the future.

» Learn more about the MCSP by visiting: www.lockheedmartin.co.uk

UK Suppliers Can Help Harvest Success

British companies, research institutions and academia have been invited to benefit from the exciting opportunities offered by the harvesting of polymetallic nodules from the ocean floor during a Lockheed Martin sponsored supply chain industry day held in London.

Speaking at the event, LMUK chief executive Stephen Ball confirmed that engagement with prospective supply chain partners is already underway, stating: “We are looking to establish a consortium of UK companies to help us develop this nascent industry. “With its long and proud engineering tradition, many companies in the UK supply chain are ideally placed to benefit.”

Stephen’s comments were underpinned by David Willets, UK Minister for Universities and Science, who said the UK should benefit from already being a leader in underwater robotics and autonomous systems used in the development of North Sea oil and gas.

Collecting polymetallic nodules from the ocean floor, given the depth at which they are found and the technological challenges of working several kilometres beneath the surface, has previously been deemed to be uneconomic.

Today, the high price of minerals and rare earths coupled with modern-day technologies developed for working in space and in support of other offshore industries have changed this dynamic.

» Learn more about UK Seabed Resources and view videos that show the potential economic and industrial benefits to the UK by visiting: www.lockheedmartin.co.uk
Third UK F-35B Takes Flight

The third Lockheed Martin F-35 Lightning II for the United Kingdom sped down the runway at U.S. Naval Air Station Fort Worth joint reserve base earlier this month, embarking on its first flight.

The aircraft (ZM137) departed at 1016hrs local time with Lockheed Martin F-35 chief test pilot Alan Norman at the controls. It will complete a series of company and government checkout flights prior to its acceptance by the U.K Ministry of Defence. ZM137 will join other UK aircraft ZM135 and ZM136 at Eglin Air Force Base, Florida, later this year where it will be used for pilot and technician training. UK operated F-35 Lightning II aircraft will be based at RAF Marham in Norfolk which will benefit from new investment and infrastructure to make it the main operating base for UK aircraft.

www.f35.com

Farnborough Pursues Polish Opportunity

The Polish Ministry of Defence has confirmed that Lockheed Martin UK (LMUK) is one of just four companies to be shortlisted to provide a new military flying training system to meet the new-generation pilot training needs of the Polish armed forces.

Other bidders in the competition, which is due to reach a conclusion by the end of this year, are BAE Systems of the UK, Italy’s Alenia/Aermacchi and Aero Vodochody from the Czech Republic.

The LMK proposal will be led by our Farnborough-based Mission Systems & Training (MST) team. It will lean heavily on the experience and track record of Ascent Flight Training (Ascent), a joint venture company with Babcock, which delivers excellence in flying training to the UK armed forces. Ascent is the UK Ministry of Defence’s training system partner of choice for the 25 year delivery of the UK’s military flying training System (UKMFTS). It works in close partnership with the Ministry of Defence’s 22 training group and the defence equipment and support organisation (DE&S). It offers a modern and streamlined flight training solution for the RAF, Royal Navy and Army Air Corps by consolidating all phases of aircrew instruction for the three services. Although the Polish requirement is largely for a new military flying training system, to replace that operated for decades before the country joined NATO, the LMK proposal will also include the procurement of a small number of new-generation T-50 advanced jet pilot and combat training aircraft. These much more capable aircraft will replace a larger number of earlier generation trainers which first entered service in the 1960s. Built by Korean Aerospace Industries, through a technology partnership with Lockheed Martin, the T-50 is a new-generation advanced jet pilot and combat trainer. Fully interoperable with NATO assets, it offers operational synergies with Poland’s modern F-16 fighter fleet. Specifically designed for 21st century operational requirements, the T-50 is among the most capable training aircraft available in terms of performance and low cost of operation.

Unlike older generation or lower performance competitors, the T-50 enables front line pilots to experience the sustained and high levels of g-force involved with flying the very latest fourth and fifth generation fighters.

Learn more about our joint venture company Ascent, by visiting the 10,000 ways pages at: www.lockheedmartin.co.uk

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Extending the agreement demonstrates the strength of the NATS-Lockheed Martin partnership, delivering the most advanced air traffic control solutions on time and within budget. With more than 50 years of experience, Lockheed Martin is a world leader in air traffic management. From chequered flags on the ground to radar to digital and to satellites, the steady advance of air traffic control capability has been led by innovators from Lockheed Martin and its legacy companies. Every day across the globe, some 60 per cent of the world’s commercial air traffic and 80 per cent of the world’s oceanic airspace are monitored and controlled by air traffic control systems designed, built and deployed by Lockheed Martin. From the runway to the tower and from take-off to touchdown, the company is developing next-generation systems and technologies in the UK and elsewhere to modernise airspace management and deliver millions of passengers safely to their destination each year.

The safe and efficient management of UK and northern Atlantic airspace is set to be underpinned by a new seven-year contract extension awarded to Lockheed Martin UK (LMUK) by NATS, the UK’s provider of air traffic services and solutions.

The contract builds on a relationship between Lockheed Martin and NATS which spans more than 25 years. It means the company’s Whiteley, Hampshire, based team will continue to provide mission critical support to air traffic management systems based at Swanwick, Hampshire, and Prestwick on the West coast of Scotland.

In the last financial year, NATS controllers guided 2.2 million flights over the UK and northern Atlantic. Under the contract extension, LMUK will also support the NATS flight data processing system, providing domain experts across all aspects of engineering and programme management. The work will sustain approximately 150 jobs at Whiteley. Martin Rolfe, NATS managing director operations, said: “Our controllers are looking after aircraft in some of the busiest and most complex airspace anywhere in the world, so they need systems they can rely on.

“Lockheed Martin plays an integral role at NATS. Over the years, we have built a very close relationship and I am delighted to see this continue.” The effectiveness of this relationship was recognised earlier this year when the company’s Whiteley based team emerged as one of the leading service providers to NATS by being presented with a supplier excellence award for a sixth consecutive year.

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People Skills Recognised With an Investors in People Bronze Award

Globally, Lockheed Martin recognises that its success as a business depends entirely on the talent, skills and expertise of its people and their ability to function as a tightly integrated team.

Key to the company’s values are an appreciation for diversity and inclusion and a belief that respect – for colleagues, customers, partners and all those with whom it interacts – is an essential element of all positive and productive business relationships.

Putting its people first has enabled our UK-based Information Systems and Global Solutions business (IS&GS) to gain a much coveted bronze Investors in People Award. Bronze awards are achieved by just over 5% of Investors in People recognised organisations in the UK.

They recognise companies which go above and beyond in the way they develop, support and motivate their staff identifying them as being among the UK’s top places to work. IS&GS, which employs more than 400 people is responsible for developing geo-spatial and intelligence products and services to counter cyber-security threats in the security as well as civil market sectors and for the provision of technical consultancy services.

“I hope other organisations will look to Lockheed Martin UK as an example of what can be done when staff and management work together”

John Telfer, Managing Director of Inspiring Business Performance (IBP)

John Telfer, Managing Director of Inspiring Business Performance Ltd (IBP), the organisation which delivers Investors in People accreditation at IS&GS, which delivers Investors in People accreditation at:

www.investorsinpeople.co.uk

For more news on the Vigilance system, visit the newsroom at:

www.lockheedmartin.co.uk

New RO-RO Sensor System Trials

A new high performance roll-on roll-off (RO-RO) air surveillance capability, designed to provide additional operational capabilities to existing platforms thus creating a force multiplier effect, has completed a series of initial flight trials at the military aircraft test and evaluation facility, RAF Boscombe Down.

‘Vigilance’ is a multi role mission system which can be fitted to fixed or rotary wing platforms to provide a broad range of capabilities including Airborne Early Warning (AEW), Anti Submarine Warfare plus maritime and battlefield surveillance.

The solution can be role fitted to a customer’s existing platforms or fitted as a permanent solution.

With focus on AEW, initial trials of the self contained sensor pod were carried out onboard a Royal Navy Merlin Mk1 helicopter. The objective was to ensure sensor capabilities are not adversely impacted by vibration and resonance typically found in rotary wing platforms.

Programme Manager Younus Mustafa explained: “Initial trials demonstrated that there was no adverse impact on the system as a result of vibration. We are now planning a second stage of performance trials for later this year.”

Lockheed Martin has also been developing a prototype RO-RO console solution and adding new sensor integrations to the existing ‘Vigilance’ system. This provides for a complete range of mission capabilities in delivering multi-mission solutions.

Employees from Ampthill are playing a key role on behalf of the Defence Science and Technology Laboratory (DSTL) and UK Ministry of Defence (MOD) in US trials of an autonomous vehicle convoy system designed to reduce the risk to supply convoys in areas of conflict.

The Ampthill team led trials of a convoy active safety technology (CAST) system. This formed part of a new research programme to determine the progression of autonomous material distribution systems. Day and night trials were conducted using military supply vehicles. Tests included using manual mode, with no CAST involvement, CAST in driver’s aid mode (using basic, intermediate and advanced human machine interface display aids) and CAST in full autonomous mode. When in full autonomous mode CAST provided the least cross track error and also maintained the required distance between each of the vehicles when in convoy. Recommendations on a potential way forward have been provided to the UK MOD. A decision on the preferred way forward is due to be announced later this year.

For more news on the Vigilance system, visit the newsroom at:

www.lockheedmartin.co.uk

www.lockheedmartin.co.uk
Potential for Continued Growth

Lockheed Martin UK (LMUK) continues to see considerable potential to expand its business footprint, both at home and internationally, despite challenging market conditions, according to chief executive Stephen Ball.

Speaking at the annual LMUK leadership conference, Stephen confirmed the UK remains a cornerstone of Lockheed Martin’s plans to grow its international revenues from the current 17 per cent to 25 per cent by 2017. The aim, he said, was to maintain a compound annual growth rate of some 10 to 15 per cent by winning a significant percentage of more than £30 billion of market opportunity across multiple UK sectors such as defence, security, transport, energy and civil.

LMUK’s strategy is to become a key supplier across multiple UK government departments and, using the skills, experience and intellectual property developed by its 2,500 strong UK workforce, pursue opportunities to capture international business from the UK. Stephen said continued growth would see some diversification into adjacent markets, particularly in non-defence areas.

In focus are opportunities in the cyber, aircrew training, postal recognition, commercial space satellite re-entry and the harvesting of seabed minerals, among others. The company’s emphasis will be on creating value for customers and shareholders, working in close partnership with the UK supply chain, research institutions and academia.

“Our reputation with customers and suppliers remains a key differentiator.”

Stephen Ball, chief executive Lockheed Martin UK

Besides organic growth, work was also underway to identify potential acquisitions which would help the company to fulfil its UK development plans. Stephen confirmed. In the eyes of the parent company, Lockheed Martin UK has matured into a core business.

This will be of critical importance going forward as the corporation grows its international footprint. LMUK’s operations will have a key role in delivering international growth, through both the UK domestic market and the generation of export revenues.

More information about LMUK’s strategy and contribution to the UK can be found on the 10,000 ways pages at www.lockheedmartin.co.uk

IN BRIEF

The U.S. Navy has awarded Lockheed Martin a US$57 million contract to upgrade the fleet’s electronic warfare defences against anti-ship missile threats.

The company will upgrade systems on all U.S. aircraft carriers, cruisers, destroyers and other warships, providing key capabilities to determine if the electronic sensors of potential foes are stalking the ship.

Lockheed Martin has been selected by NASA’s Johnson Space Centre to provide biomedical, medical and health services in support of all human spaceflight programs.

These services under the human health and performance contract (HHPC) monitor astronaut health and enable bioastronautics research that benefits life on Earth. The potential contract value to Lockheed Martin is about US$250 million over the expected 10-year life of the contract.

Lockheed Martin and Microsoft have successfully migrated the U.S Environmental Protection Agency (EPA) to Microsoft Office 365, a cloud-based collaboration and communication service.

This cloud-based system improves employee access to communications and mobility tools. Under a four-year contract, the company has transitioned more than 22,000 EPA email users to Office 365 for government, a service which stores U.S government data in a segregated community cloud. This includes email, calendars, scheduling and collaboration tools for both internal and external use.
Affordable Solution to a Growing Global Problem

While water covers more than 70 per cent of the Earth’s surface, only about three per cent is considered clean enough to drink. With the global demand for potable water growing, the sea is viewed as a potential solution.

In order to drink this water, it must be desalinated. Reverse osmosis systems can achieve this through a costly process that requires large amounts of energy.

Now, Lockheed Martin is working on a solution that will offer an answer. The company recently received a patent for Perforene™ material, a molecular filtration solution designed to meet the growing global demand for potable water. The Perforene membrane features holes that are one nanometer – one billionth of a meter – or less in a graphene sheet. Small enough to trap sodium, chlorine and other ions from sea water, the holes dramatically improve the flow-through of water molecules, reducing clogging and pressure on the membrane.

Made of pure carbon and similar to graphite, graphene is so thin – only one atom thick – it allows water to flow through 100 times better than current reverse osmosis systems, making it more effective at desalination at a fraction of the cost. The Lockheed Martin team, which consists of experts from its Mission Systems and Training, Advanced Technology Labs and Space Systems businesses, with significant investment from Corporate Engineering and Technology, is also investigating other applications for the Perforene material, such as separating proteins for biopharmaceutical use and removing chemical substances and compounds from water used in oil and gas wells.

“Access to clean drinking water is going to become more critical as the global population continues to grow, and we believe that this simple and affordable solution will be a game-changer for the industry,” said Dr. Ray O Johnson, Lockheed Martin senior vice president and chief technology officer.

The Perforene material works by removing sodium, chlorine and other ions from sea water and other sources.

Sim-Industries, a Lockheed Martin company, has opened its first South American flight training facility in Brazil. The Sim-Industries Brazil São Paulo Training Centre provides academic and simulator instruction for pilots flying commercial passenger and cargo jets. Pilots from GOL Linhas Aéreas Inteligentes represent the inaugural class of airmen to train at the centre.

IN BRIEF

Lockheed Martin will leverage its expertise in the manufacture of space shuttle external tanks to meet the rapidly growing demand for liquefied natural gas (LNG) tanks for storage and transportation. Initial orders have already been received to manufacture cryogenic tanks for fuelling LNG powered vessels.

Applying technologies originally developed for high technology government contracts the company will draw on a variety of capabilities developed for a wide range of programmes, spanning propulsion handling, assembly, test and integration, composites manufacturing, and production facility and tooling design.

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Find out more about the work that Lockheed Martin are doing with nanotechnology by visiting: www.lockheedmartin.co.uk
Supporting Air Power

Together with six UK partner companies, each with experience of delivering products and services to the UK armed forces, Lockheed Martin UK is bidding to win a £1.5 billion air traffic services contract from the UK Ministry of Defence (MOD).

The partnership, known as ‘Fusion’ consists of BT, Cobham, Frequentis, Moog, Ferran Northrop Grumman Park Air Systems and Selex ES in addition to Lockheed Martin’s own Whiteley-based team from ISG&G (Civil).

Project Marshall, as the competition is known, will provide support to UK military flying and air deployed operations for a 22 year contract period. It will provide air traffic control and air traffic technical services for all of the MOD’s airfields and air weapon ranges both in the UK and overseas. This includes those being used for current operations. Of paramount importance is the need for all bidders to demonstrate that they can deliver Project Marshall in a way that does not negatively impact on current flying operations during the transition period. An initial outline proposal has already been submitted by our business capture team and competitive dialogue sessions with the MOD customer are now in progress.

Project Marshall capture director Andy Madge comments: “The Fusion team is the strongest and most capable to deliver a safe, mission-focused and affordable solution to meet the MOD’s air traffic services needs. Each team member brings world-leading capabilities. Collectively, Fusion has an unparalleled understanding of the current operational environment and infrastructure, and the ability to offer a value-for-money solution for the future.”

Team members already provide the majority of critical need equipment (by value) to the MOD, reducing the risk associated with service provision. They are ideally positioned to deliver the safe and assured provision of Project Marshall in both a flexible and affordable way, while also having the capability to respond to uncertain and ever-evolving operational needs. “We will support the mission throughout transition, underpinned by best practice and an exceptional knowledge of current equipment, processes, people and commercial arrangements,” states Andy Madge.

“With a proud track record of excellence in delivery and customer support, the MOD can be sure that Fusion will always put the customer’s need for mission success first.”

www.fusionats.com

Appliance of Science

Lockheed Martin UK (LMUK), through its Amphill facility in Bedfordshire has marked National Science and Engineering Week by providing school students with an insight into the fascinating world of engineering and the career opportunities it offers.

As part of the company’s extensive education outreach programme employees from Amphill, which works on the Warrior fighting vehicle capability sustainment programme (WCSP) among others, teamed up with the Society of Environmental Engineers (SEE) to deliver an all terrain egg challenge at the recent Big Bang Science and Engineering Fair in London.

The challenge was based on the company’s involvement with all terrain vehicles and research which is carried out at the Amphill site, where employee numbers have grown by more than 300 in the past 18 months.

The All Terrain Egg Challenge was devised by graduates from Amphill and SEE President Steve Burnage, himself a Lockheed Martin engineering Fellow, the challenge gave students five minutes to design and build an all-terrain vehicle made from materials provided. On completion, the task was to pull this vehicle over rough terrain while it carried an egg.

Fun projects of this nature are an integral part of Lockheed Martin UK’s annual programme of pre-employment education activities. By raising awareness of Science, Technology, Engineering and Mathematics (STEM), engineering apprenticeships, internships and graduate career programmes, the company is playing its part in attracting and retaining a skilled UK workforce for tomorrow.

○ Learn more about LMUK’s education outreach activities at: www.lockheedmartin.co.uk

MEET THE TEAM

MAY 14
RUSI F-35 LIGHTNING II CONFERENCE
Royal United Services Institute, London

MAY 17-18
BYDGOSZCZ AIR PICNIC
Bydgoszcz, Poland

JUN 17-23
PARIS INTERNATIONAL AIR SHOW
Le Bourget, France

JUL 17-22
ROYAL INTERNATIONAL AIR TATTOO
RAF Fairford, Gloucestershire

AUG 24-25
RADOM AIR SHOW
Radom, Poland

SEPT 10-13
DSEI DEFENCE EXHIBITION
ExCel, London