

# desider

Aug 2013 Issue 63

the magazine for defence equipment and support



Ministry  
of Defence

## DE&S helps build a sustainable UK submarine industry



Latest DE&S organisation wallchart [See inside](#)



DE&S delivers,  
says report



Training on  
Sentinel



Board goes  
on the road



Safety on  
the water



Viking  
regeneration

Our UK employees are proud to provide kit for Britain's armed forces. We design, manufacture and maintain fighter jets, armoured vehicles and naval vessels including the Typhoon aircraft, Scimitar light tanks and the Astute Class of submarine. But we're prouder still of the contribution and sacrifices made by our armed forces every day. Thank you.

# PROUD TO SUPPORT OUR ARMED FORCES.

MADE IN BRITAIN

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The UK's submarine capability has taken a big step forward with work beginning on assembly of *Agamemnon*, the sixth of seven *Astute* class submarines, at BAES' facility at Barrow-in-Furness

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Type 45 destroyers, *Astute* submarines and a host of other examples are highlighted as the MOD's annual report and accounts charts a busy year of equipment delivery

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The first wings for the UK's fleet of A400m Atlas aircraft, the RAF's next generation transport plane, have been built at Airbus UK in Bristol for delivery to the assembly line in Seville, Spain

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The MOD's Permanent Secretary has praised the work of civil servants during a visit to Bristol where he gave the keynote speech at Civil Service Live, an event for staff of all Government departments based in the west country



## cover image

As *HMS Ambush*, above, negotiates the approaches to Clyde naval base, DE&S has signed a new contract to guarantee the future of the UK's submarine industry and secure thousands of jobs.

Picture: CPOA(Phot) Thomas McDonald

AUGUST 2013

# desider

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#### Printing:



**WILLIAMS LEA**  
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# insiderGuide



# Bernard Gray

## Chief of Defence Materiel

**'I want you in the DE&S workforce to play a full part in the changes through the many communication channels that are open to you'**



The Secretary of State for Defence Philip Hammond gave a very clear exposition of the reasons that underlie the need for significant change in the way that DE&S is operated when he spoke for the Government at the Second Reading of the Defence Reform Bill.

Much of what he said may be familiar to you, but I believe the Secretary of State's speech provides us all with a very good opportunity to remind ourselves of the need for change – and to note his wish that it should happen rapidly.

In the meantime the Materiel Strategy team is pressing ahead with its work on the assessment phase, which was launched more than three months ago. Its studies into the development of DE&S+ – the public sector comparator – and the potential Government-Owned, Contractor Operated (GOCO) solution are continuing to advance according to our timetables, whatever speculation you may have read in the media.

Mr Hammond told MPs during the House of Commons debate that he was determined to change the way that MOD carried out defence procurement.

He said for decades the defence equipment programme had suffered from poor time and cost forecasting and poor project and programme management, leading to delays, cost overruns and specification failures. The delivery of the ten-year £160 billion equipment and support programme required fundamental reform to MOD's defence acquisition processes and structures.

He reiterated the Government's preference for DE&S to be transformed into a Government-Owned, Contractor Operated (GOCO) organisation – but said this proposition would

be tested through a commercial competition and against DE&S+.

I'm convinced that the need for change in DE&S has secured wide understanding and acceptance. The Secretary of State's wish for rapid change is a reminder that decisions that will affect all of us are expected to be taken next year. Should a GOCO solution be selected by Ministers we can expect a contract to be awarded in the late summer of next year with the new organisation standing up around the turn of the year.

There is a great deal to do between now and the period during which ministers will make a decision on the future structure of DE&S and, as I have said many times, I want you in the DE&S workforce to play a full part in the changes through the many communication channels that are open to you.

The MOD's Annual Report and Accounts – which is covered elsewhere in this edition of *desider* – provides hugely impressive evidence of the work of DE&S in the last financial year, when equipment deliveries to the three services totalled nearly £8 billion and covered warships, fighter aircraft and a wide variety of land equipment.

In this context I was very pleased to see that the first two boats of the *Astute* class of attack submarines have now been handed over to the Royal Navy, ready to be prepared for operations, and the keel of the sixth of the class has been laid. It has also been announced that the BAE Systems element of the Submarine Enterprise Performance Programme has been signed. These events are the result of a huge amount of hard work, over many years, by DE&S, the Royal Navy and our partners in industry.

Right: future *Astute* class submarines *Artful*, on the left, and *Audacious* are pictured in the main construction hall at BAE Systems, Barrow-in-Furness.

Below right: Leading Hand Craig Rankin, on board *Artful* during its construction, carries out daily checks in the weapon compartment. The keel of *Agamemnon*, the sixth of seven *Astute* boats to be built, has been laid down at Barrow

Pictures: Andrew Linnett

**Work begins on  
Astute No 6 –  
pages 20 and 21**



## DE&S secur

DE&S HAS signed a new contract to guarantee the future of the UK's submarine industry and secure thousands of jobs.

The eight-year foundation contract with BAE Systems underpins an existing arrangement between the MOD and industry, known as the Submarine Enterprise Performance Programme (SEPP).

The aim of SEPP is to improve performance, reduce costs and develop a sustainable submarine enterprise, delivering overall programme savings of at least £900 million, of which BAE Systems' target is £386 million.

Philip Dunne, Minister for Defence Equipment, Support and Technology, announced the contract during a visit to BAE Systems' submarine works at Barrow-in-Furness on 18th July. Complex submarines have been designed and built at the site for the Royal Navy for more than a century.

"To build the submarines of the future though, we need to secure the skills and the workforce that have been rebuilt over the past decade. Painful experience has taught us the importance of sustainability in this industry," he said.

"By ensuring the UK's submarine programme remains affordable, this new





# es submarine enterprise

contract will help deliver the *Astute* class and pave the way for the future Successor nuclear deterrent submarines," he said.

"It will secure around 5,000 jobs at BAE Systems and thousands more who work in more than 400 suppliers across the UK submarine supply chain.

"The Submarine Enterprise Performance Programme aims to increase collaboration between our three key submarine suppliers to improve efficiency and deliver substantial savings.

"Together with similar agreements with our other key suppliers, Babcock Marine and Rolls Royce, this will lead to more than £900 million of savings. This is crucial to achieving an affordable submarine programme."

John Hudson, Managing Director for BAE Systems Maritime – Submarines, added: "Signing this contract underlines our commitment to SEPP and recognises our role as the lead contractor for the design and build of submarines for the Royal Navy.

"At the heart of it is the

principle to collaborate with the MOD, Rolls-Royce and Babcock in the delivery of this very complex programme. We are committed to working with the MOD and others to make the submarine programme more efficient and to date we have achieved savings of more than £90 million."

BAE Systems is the prime contractor for the seven *Astute* submarines. It is also the industry lead for the design of a replacement for the *Vanguard* class submarines, employing more than 5,000 skilled employees across its Maritime – Submarines' sites.



## NEWSREEL

### DSEI nations mount up

DSEI, the defence and security equipment exhibition, will host a record 40 international pavilions at ExCeL London from 10th-13th September. Indonesia, Japan, Malaysia, South Korea and Taiwan will make their debuts, clear evidence of the importance that these key emerging players place on DSEI. India, a previous exhibitor, is increasing its presence significantly, mounting both public and private sector pavilions. Other newcomers include Chile, joining Brazil in representing Latin American growth markets, while the UAE is the latest Middle Eastern nation at the event.

### New chief

CHIEF of the Defence Staff General Sir David Richards has handed over to his successor General Sir Nicholas Houghton. General Sir Nicholas said: "This is an occasion to recognise the responsibility for the leadership of our Armed Forces. David and I share the same sense of the enormous responsibility and privilege which our appointment bestows."

### Turret tests

MOOG Industrial Group has delivered a turret test system to Lockheed Martin's Amptill facility in Bedfordshire. Turrets will be tested for performance as part of the Warrior Capability Sustainment Programme and Scout support vehicles.

## NEWSREEL

## Keeping bills under review

THE MOD keeps its approach to paying suppliers under review to ensure opportunities are seized for improving value for money in its contractual arrangements, Minister for Defence Equipment, Support and Technology Philip Dunne has reassured Parliament. This includes e-purchasing to request discounts for prompt or early payment – a recent development. The MOD exceeds the Government's prompt payment stretch targets.

## Branching out worldwide

LOCKHEED Martin has launched Lockheed Martin International (LMI) to strengthen international customer relationships and industrial partnerships, and to grow the company's global business. LMI will have its headquarters in London and Washington. The company does business in 70 countries.

## Sub support

ENGINEERING consultancy Frazer-Nash will provide specialist safety and environmental advice and resources on the Future Submarine programme following a competitive tender. Development of the safety and environmental cases will be part of the assessment phase to ensure it advances past the design review in 2016. Frazer-Nash is managing a team which includes BMT Isis, Jacobs UK and RB Safety Consultants.

# Procurement will change –

## Abbey Wood team works up DE&S+ – the public sector option

DR LIESL Neale has told those at the latest working group that they are helping her deliver the best possible DE&S+ as an alternative to a Government owned, contractor operated organisation (GOCO).

This is the latest workshop by the DE&S+ team developing processes and tools for the DE&S+ proposition – a transformed organisation remaining in the public sector.

Dr Neale explained what has been done in identifying and understanding problems in DE&S. She also explained the benchmarking work done across similar organisations, both public and private – there is no organisation exactly like DE&S.

“We have taken the best aspects from these and worked out the levers for change that we can pull and used these within the DE&S+ Blueprint,” she said.

The DE&S+ team has designed how DE&S+ would operate and working groups will cover key elements of the proposed design. This includes processes and tools to address what is adding value, and if they are not adding sufficient value, to challenge current practice and look for ways to improve.

“My team can't possibly know the whole of DE&S in detail; this is why we need you to be involved as subject matter experts from the business,” Dr Neale said.

The DE&S+ team will need to demonstrate the benefits of what is being proposed and that they are affordable and implementable. “This will be a credible and deliverable option,” she said.

The team recognises that parts of DE&S are improving their processes and wants to ensure it draws on these good ideas. But DE&S+ is about adopting a systematic approach across the whole organisation.

The team is keen to hear ideas or suggestions for improvements. Contact either Liz Heywood DES CDM-MatStrat16-DepHd or Mike Austwick DES CDM-MatStrat10-DepHd



Liesl Neale

■ Minister for Defence Equipment, Support and Technology Philip Dunne has told MPs the Invitation To Negotiate would be dispatched to potential GOCO partners as soon as possible.

He said: “We are merely waiting for cross-Government final approvals. The identity of the domain to go first will be disclosed in the invitation, which will be made public.”

## Trident review: ‘a step down the ladder is available’

CHIEF SECRETARY to the Treasury Danny Alexander told MPs during a House of Commons debate on the Trident Alternatives Review that taking a different approach to the nuclear deterrent could lead to savings of about £4 billion over the life of the system.

He told MPs that the document, published by the Prime Minister and the Deputy Prime Minister, was the most thorough review of nuclear weapon systems and postures that the UK had undertaken for decades, and the most comprehensive analysis ever made public.

He said: “For the first time

in a generation, the Trident Alternatives Review shows that there are credible and viable alternatives to the United Kingdom's current approach to nuclear deterrence.

“A different approach could allow long-term savings – about £4 billion over the life of the system – to be made against current plans.

“Let me be clear: this does not change current Government policy to maintain Britain's nuclear deterrent and prepare for a successor system. It does mean that we can at last have an open and much more informed debate about what our nuclear



# and fast!

DEFENCE SECRETARY Philip Hammond told MPs during a House of Commons debate on the Second Reading of the Defence Reform Bill on 16th July that he was determined to change the way the MOD carried out defence procurement – and to do so rapidly.

He said that for decades the defence equipment programme had suffered from poor time and cost forecasting and poor project and programme management, leading to delays, cost overruns and specification failures.

“We have to address these issues by challenging the pattern of incentives and behaviours once and for all. That is why, after success on military operations, my priority as Defence Secretary has been to establish, for the first time, a fully costed and deliverable ten-year equipment plan.

“However, if we are to deliver this programme consistently and to entrench a better method of working to provide a better service to the front line in future, we need fundamentally to reform our defence acquisition processes and structures.

“Our preference is to transform the existing Defence Equipment and Support organisation into a Government owned, contractor operated organisation – a GOCO. We believe that this model is the one

## Defence Reform Bill – the future of DE&S – passes another hurdle

most likely to embed and sustain the significant behavioural change required to transform defence acquisition.”

Mr Hammond, pictured, told MPs that a commercial competition was under way, and in parallel, MOD was developing a robust public sector comparator – DE&S+ – that would explore possible reforms to the organisation within the public sector.

He said: “If, at the end of this process, the GOCO model is indeed the chosen option, legislation needs to be in place so that we can move quickly to sign a contract with the successful bidder once a final decision is made.

“The expectation is that the competitive process will be completed by the spring of next year, with the contract award in the late summer and with the GOCO standing up, if that is the solution we choose, towards the end of next year or at the very beginning of 2015 – around December or January.

“I am determined to drive a step change in the way in which the MOD carries out its defence procurement business, and to do so rapidly. The gradual erosion of skills and capability in the



organisation over recent years cannot be allowed to continue if we are to ensure the MOD's ability to deliver equipment to the front line.”

Other provisions in the Bill cover improvements to the way single-source procurement is done, including the creation of the Single Source Regulations Office, to keep the statutory framework under review and to monitor adherence to it.

Mr Hammond said this would replace an existing regime that had failed to evolve to reflect changing circumstances, largely because either party could block any change that it regarded as contrary to its own interests.

## NEWSREEL

### Sign up to help heroes

COMPANIES and charities across the country are to sign up to a new Corporate Covenant to demonstrate their support for the Armed Forces. They will commit to help improve the lives of personnel, their families and veterans who are working for or using their services. Support will include sustainable job opportunities, discounts for the Armed Forces community, and supporting their local cadet unit. The first company to sign the Corporate Covenant is coach operator National Express.

### AIM higher

AIM Aviation has opened its new static test facility at Bournemouth Airport, providing 430 square metres of large-structure test area. The company designs and manufactures cabin interiors for the world's major airlines on Airbus, Boeing and military aircraft from its base in the UK.

### Career boost

BETTER benefits, more security and support for Reservists and employers are key pillars of the Reserves White Paper unveiled last month. The UK's Reserves will grow to 35,000 with the Territorial Army changing its name to the Army Reserve to better reflect its integration into the whole force. Around £80 million will be invested in the Army Reserve estate. Details at [www.gov.uk/government/consultations/future-reserves-2020-consultation](http://www.gov.uk/government/consultations/future-reserves-2020-consultation)

## ‘The gradual erosion of skills and capability in the organisation cannot be allowed to continue’

weapons are for and how they should be deployed – a debate that provides our country with a chance to change course before the main gate decision for a successor system is taken in 2016.”

He said: “The conclusion I draw from the Trident alternatives is that although alternatives exist, there is no new system available before the lives of the current *Vanguard* submarines come to an end to meet those criteria.

“But a step down the ladder is available: ending 24-hour patrols when we do not need them and procuring fewer successor submarines, moving on from an outdated cold war concept of

deterrence to one fit for the world we inhabit now.”

Minister for Defence Equipment, Support and Technology Philip Dunne said: “The maintenance of the UK's deterrent in the face of the clear threat during the Cold War and the uncertainties of today's world has been possible only because of the dedication of those who have worked tirelessly to provide it.

“I am sure the whole House, regardless of Members' views on the issue, will join me in paying tribute to the crews of our submarines and their families, and all the men and women, both military and civilian, who are

engaged in providing our deterrent. I also wish to take the opportunity to congratulate them on the successful conclusion a few weeks ago of the 100th patrol undertaken by the *Vanguard* class of submarine under Operation Relentless – a significant achievement and a testament to the commitment, professionalism and skill of all those involved.”

He concluded: “This Government recognises the need to provide our nation's security in the most efficient and effective way possible. We need a credible deterrence posture, and CASD (Continuous At Sea Deterrence) alone provides that.”

## Trenchant sets new standards in comms

HMS TRENCHANT has begun a two-year maintenance period following a record-breaking deployment east of Suez and a 'spectacular' performance by the submarine's information system.

The time spent at periscope depth to transmit and receive administrative and personal email was reduced by up to 75 per cent without losing any information.

The 'smart' Information Management Unit (IMU) supplied by SVGC Technology allowed *Trenchant* to prioritise emails and summarise content before downloading, ensuring efficient use of bandwidth. This is critical for submarines, which often experience low bandwidth and intermittent connectivity.

Ross Galloway, DE&S' Information Management trial sponsor said: "The results from *HMS Trenchant's* operational deployment are spectacular. The IMU is the only system of its kind to have been proven during live missions in such challenging operational circumstances."

Steve Sykes, Managing Director of SVGC Technology, added: "As one of the smaller defence companies, we are extremely proud to support Royal Navy submarines on critical operations. As a result, the IMU is currently the only private venture commercial off the shelf product of its type."

Meanwhile *Trenchant's* two-year Revalidation and Assisted Maintenance Period (RAMP) – the largest by Babcock – has begun and will make her safe to operate for the rest of her life.

Maintenance will include 40 weeks in dry dock. The project is set to involve more than 400,000 staff hours as well as sub-contract work for equipment upgrades, overhauls and commissioning.

Babcock Project Manager Ian Mcleod said: "This is a joint project between Babcock, DE&S and ship's staff. Together we will shape this project and deliver it to schedule, cost and quality."

Home again: nuclear submarine *HMS Trenchant* enters Devonport after 267 days east of Suez on a journey of 38,800 nautical miles including 4,700 hours under water



DEFENCE MINISTER Philip Dunne has told MPs during a debate on the submarine industrial base that the Royal Navy's operational success at sea was only possible due to the work of thousands of people who build, support and maintain submarines in the UK.

He said, during the Westminster Hall debate: "The current submarine build programme alone sustains more than 10,000 jobs across the UK."

"There are some 5,000 high quality and skilled jobs at nine BAE Systems sites across the UK and thousands more are supported through 400 suppliers across the country."

"Thanks to our commitment to build seven *Astute* class submarines, as set out in the Strategic Defence and Security Review, these people are set to be busy for years to come."

The MOD had learned from the ten-year gap in submarine production, and the *Astute*

programme was crucial to sustaining the skills and workforce necessary to meet the Government's commitment to retain and renew a credible, continuous and effective nuclear deterrent.

Mr Dunne, Minister for Defence Equipment, Support and Technology, said few corners of the UK did not benefit from the £9.8 billion *Astute* submarine programme.

It was easy to focus only on BAE Systems' submarine construction yard at Barrow-in-Furness. But every nuclear power plant for Royal Navy submarines had come from the Rolls-Royce facility at Raynesway in Derby.

MOD had announced investment of more than £1 billion to regenerate the plant, sustain core production and secure 300 highly-skilled manufacturing jobs.

"Likewise, the fleet could not continue to operate without the support provided at Devonport

dockyard. The refuelling, refits and overhauls that are essential to keeping our submarines at sea are all carried out here," the Minister said.

At the Clyde submarine base 6,700 personnel supported operations and the Sensor Support Optimisation contract signed recently with Thales UK has secured 50 jobs in Glasgow, along with a further 250 in Crawley, Manchester and Somerset.

Mr Dunne added: "We have led the way in the submarine domain, in seeking to extract efficiencies through the Submarine Enterprise Performance Programme, which will help to ensure we have an affordable programme that continues to stimulate growth and secure jobs and, most importantly, continues to deliver some of the world's most advanced, powerful and formidable machines to the Royal Navy."

## Bowman deal is good news for defence supply chain

A NEW £45 million maintenance contract for the Bowman radio will secure up to 300 UK jobs.

Bowman's secure digital voice and data system which allows front line soldiers to communicate with colleagues on the ground, at sea or in the air has played a vital role in Afghanistan.

General Dynamics UK will support troops across the globe who use Bowman, securing 150 jobs at Oakdale, South Wales.

The other 150 jobs will be sustained across the supply chain. Wincanton in Bicester, Excelis in Basingstoke and DRS in Farnham are among the larger companies who will benefit as well as small and medium-sized enterprises including Cablesan in Brough and AWE Electronics in Staffordshire.

Minister for Defence Equipment, Support and

Technology, Philip Dunne, said: "This is a good example of how one of our prime contractors is working closely with UK-based small and medium-sized enterprises, helping to rebalance the economy and laying the foundations for lasting growth and shared prosperity in the defence industry."

Cablesan repair electrical wiring damaged on operations in Afghanistan. Managing Director Richard Willis said: "This contract provides Cablesan with sustainable work over the next five years which supports the company growth strategy by enabling a fixed level of work to be planned into the production schedule each month. As a result, we have created additional jobs and are relocating to a larger facility within one of the country's Enterprise Zones."



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## NEWSREEL

## Lightning II safety

SCS, a subsidiary of technology group Cohort, will provide airworthiness support valued at £4.1 million to the UK Lightning II. The contract runs for two years from last month, with options for two six-month extensions, and is intended to ensure that the Lightning II enters service as a safe and effective aircraft.

## Science review

MINISTER for Defence Equipment, Support and Technology Philip Dunne has launched a review of the Defence Scientific Advisory Council. This will examine the Council's form and function as well as its corporate governance procedures. The review is due to be completed later this year.

## Pyeroy buy-up

GATESHEAD-based Pyeroy, whose painters and support staff are working on the *Queen Elizabeth* class carriers, has been bought by the Wood Group. Pyeroy was founded in 1973 and employs 1,800 people at eight locations throughout the UK and Ireland.

## On the move

No 71 Inspection and Repair (IR) Squadron is to move from St Athan to RAF Wittering at a cost of around £820,000 to be closer to combat and large aircraft units – including the future Lightning II aircraft – which are their major customers, and to bring about operational and efficiency benefits.

Right: Viking pictured on operations in Afghanistan

Below: Vehicles line up waiting for upgrades in Sweden

# Viking restoration is going swimmingly



RESTORATION OF 99 amphibious Viking all-terrain vehicles following heavy service in Afghanistan is progressing on time.

The four-phase programme began with a £38 million deal between DE&S and BAE Systems last September to regenerate a mix of standards with a range of modifications.

Work includes restoring the ability to 'swim', which had been compromised by the weight of increased armour, payload and mine protection during Afghan operations, and reducing the future support burden.

Phase one vehicles, which required the least work, have already been returned to the UK from BAE Systems Hägglunds' plant in Sweden where the vehicles were built.

These were Mk2s and the Mk1s already fitted with upgraded hulls.

Delivery of the second tranche began in June and will continue to next April. These and the phase three Vikings all get the latest mine-protected v-shaped hull, except for the unmanned rear cars of the repair and recovery and mortar variants.

Sweden. Phase three series deliveries will start in March.

New blast protection kits make up phase four. These were delivered in April for fitting in the UK when required to increase underbody protection still further.

Brigadier Robert Talbot Rice, DE&S Head of Armoured Vehicles Programmes, said: "Viking has operated in a multitude of environments from Norway to Afghanistan and has shown that it is remarkably effective and versatile.

"Returning Viking into service through this innovative and cost-effective regeneration programme restores the Royal Marines' Lead Commando Group's strategic armoured capability and I am delighted with the progress made by BAE Systems and my In-Service Platforms team to date. I think the users will justifiably be very pleased with what they get."

By the end of 2014 the Royal Marines will again have a vital asset for littoral operations, disaster relief and military intervention in trouble spots.



Phase three vehicles consist of the new crew-served weapon and mortar variants (19 and nine vehicles respectively). Two prototypes of each have been produced and are undergoing testing in

## Typhoon Paveway trials a success

BAE SYSTEMS, working with Raytheon UK, has completed successful release of Raytheon's Paveway IV precision-guided bomb from a Typhoon.

The trials demonstrated the latest Phase 1 Enhancements to the aircraft that enables the full capability of the Paveway IV to be utilised on Typhoon. Typhoon is capable of operating with up to six Paveway IV weapons.

The Phase 1 Enhancement programme includes the integration of new weapons including Paveway IV alongside integrating a Laser Designator Pod onto Tranche 2 aircraft of the partner nations. It will further strengthen the Eurofighter Typhoon's position as a multi-role fighter aircraft.



Above: Paveway IV on Typhoon





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“Lightning represents a turning point for UK combat air capability

Key suppliers include BAE Systems, GE Aviation, Martin-Baker, Selex, Cobham, Ultra Electronics, UTC Actuation Systems and Rolls-Royce.

Right: ZM137 is ready for pilot and maintainer training

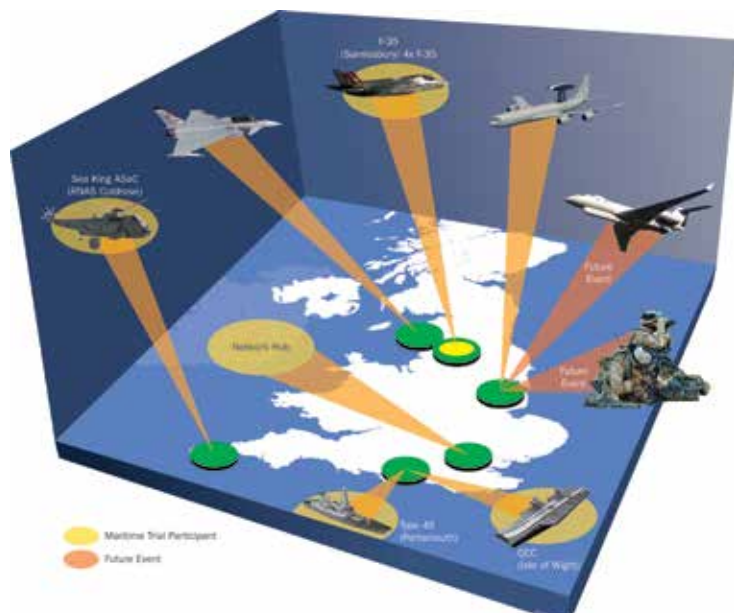


Linking into the live scenario, Royal Navy air warfare officers from *HMS Duncan* were at the controls of the *Queen*

The maritime mission scenario trial is the third out of a series of four which form part of the overall F-35 UK interoperability project.



Below: the current and future inter-operability environment





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PRECISELY  
WHERE  
IT'S NEEDED



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**INTERMODAL**

## DE&S signs up to cement QinetiQ relationship

SENIOR FIGURES in the air domain have underlined DE&S' relationship with QinetiQ by signing a leadership charter.

The two organisations have a long history of working together without a formal document laying out how they relate to each another.

Air Marshal Simon Bollom, Chief of Materiel (Air), said: "We had both become aware that, while we had significant dependencies on one another, our channels of communication were perhaps not as good as they should have been,



and this was having an adverse impact on our joint performance."

The new charter is a key result of Project Arcturus, a 3\*-level steering board to identify issues and provide direction.

The charter has been signed by Air Marshal Bollom and Mike Howarth (QinetiQ Operations Director) as well as DE&S' Directors of Combat Air, Air Support, Helicopters and Weapons Operating Centres, and Gaz Borland, Business Services Director in the Air Division, from QinetiQ.

An on-line feedback survey will also be introduced. Tim Knight from QinetiQ said: "This is an exciting opportunity to use online technology to gain rapid feedback from team members in DE&S and QinetiQ, and will help to identify any particular issues speedily so that positive action can be taken."

Project Arcturus has other streams, including leaning up the contracting process and improving joint forward planning.

Mutual respect: Air Marshal Simon Bollom and Mike Howarth, QinetiQ's operations director, sign up to the charter with, back row left to right, Air Vice-Marshal Graham Farnell, Director Combat Air; Mr Gaz Borland, QinetiQ Air Division; Air Vice-Marshal Peter Ewen, Director Air Support; and Mr Adrian Baguley, Director Helicopters, looking on

## New deal keeps defence equipment on the move

SAFE AND efficient handling of heavy loads across defence – moving fuel, ammunition, food and spares for instance – has been guaranteed for the next seven years.

A new flexible service provision contract will supply, manage and maintain Defence Mechanical Handling Equipment such as forklifts, tractors, trailers, side loaders and container handlers.

The new contract at around £87 million will save up to £18 million compared to legacy contracts over the same period.

The company providing the service is Briggs Equipment UK. The contract will be managed by the Contract Management Team in Specialist Vehicle Solutions, Operational Support Vehicles Programmes in Land Equipment at Abbey Wood.

The announcement follows a tender process during which Briggs showed it could manage around 3,000 assets across 302 places in the UK and 13 other countries, as well as Royal Fleet Auxiliary ships.

Gary Clements, Briggs's Strategic Development Director



From left: Major General Carew Wilks, Director Land Equipment at DE&S; Gary Clements and Richard Close of Briggs; Defence Minister Philip Dunne; and Brigadier Peter Rafferty, head of operational support programmes at DE&S

explained: "We are delighted to have been awarded the new contract which demonstrates our ability to provide solutions that deliver exceptional value for money, flexibility and operational cost reductions. We are looking forward to continuing and strengthening our long-standing relationship with the MOD."

The contract replaces the Tri-Service Mechanical Handling Service (Front Line Commands and Defence Support Group) and Pathfinder (Logistic

Commodities and Services and Defence Munitions) Private Finance Initiative mechanical handling equipment contracts.

A significant element of the contract is the replacement of 1,046 assets over the next seven years. Approximately 84 per cent of these will be sourced in the UK, providing a major boost for industry.

The contract also includes warehousing equipment and other products from 23 different manufacturers, chosen for performance and reliability.



# Team declares success in tackling small arms task

(And other nations are following the DE&S lead)



From this . . .



. . . through this

Left: unusable small arms ammunition is placed on the loader for incineration, above

Right: salvage cools down before being packed for recycling and sale



. . . to this

THE TASK of demilitarising thousands of rounds of unusable small arms ammunition has been completed ahead of schedule with hard work from a DE&S team.

An incinerator, provided by EOD Solutions (Explosive and Ordnance Demilitarisation), has been working throughout Afghanistan's hot summers and rainy seasons to complete an urgent operational requirement delivered by DE&S' Defence General Munitions team.

The harsh weather means that ammunition issued to front line units can experience chemical changes to its propellant which affects accuracy and reliability.

The Iraq drawdown proved that bringing unusable ammunition back to the UK for disposal was not value for money, used valuable space on transport aircraft and needed lots of staff to repack them to meet international movement legislation.

The Small Arms Ammunition Incinerator has performed well at Camp Bastion despite the stresses placed on its

complex machinery, including a high-tech ceramic pollution control system.

Its environmental credentials have been boosted by the complete recycling of salvaged material, which will pay for around a third of the contract's cost.

The incinerator, a key component in a smooth transition out of Afghanistan, will be in place until November next year to support the drawdown.

It has proved so popular that five other partner nations have requested to use the British incinerator with two major nations impressed enough to buy identical models following the UK's lead.

"This is a unique project which required support from organisations throughout defence and beyond," said Major Nick Stanford of Defence General Munitions. They have all contributed to its success.

"The contractor has delivered a flexible solution to meet our requirements but the biggest compliment has to be that other key allies have purchased identical models after seeing the British incinerator at Bastion."

## System transfer cost

THE COST to the MOD for removal and storage of Link 16 data systems from decommissioned Type 22 frigates was close to £12,000, according to a Parliamentary answer last month. The systems will be transferred to the Bay class Royal Fleet Auxiliary ships, as reported in *desider* last month. Cost to the MOD for refurbishment, transport, fitting and testing of the systems on the Bay ships is around £826,000.

## MOD's part in cross-Government resource savings is 'tough but deliverable'

THE MOD's agreement with the Treasury as part of the £11.5 billion of resource savings across Government for 2015-16 has been described as 'tough but deliverable' by Defence Secretary Philip Hammond.

"From the start of this Spending Review process, I have been open about the fact that we can make some genuine efficiency savings. But that we shouldn't take out further military capabilities," he said.

"I am pleased that we have reached an agreement with the Treasury that protects military manpower and military capabilities but which will deliver genuine efficiency savings equivalent to 1.9 per cent of our 2014/15 baseline – the best settlement of any non-ring-fenced department. Indeed, we will be increasing the equipment programme spending by 1 per cent above inflation from the 2015/16 baseline.

"Overall, we have a deal that is tough but deliverable, producing efficiencies in the back office to help us deliver on the front line. This will mean some difficult decisions around the rationalisation of civilian allowances and will also mean a small number – hundreds rather than thousands – of further civilian headcount reduction, by limiting recruitment."

Mr Hammond added that there would be £350 million of

savings in the Equipment and Support programme provided by early efficiency gains identified in the McKinsey-led review and a restructuring of existing Private Finance Initiatives.

"Another £300 million will come from a deal with the Cabinet Office Efficiency and Reform Group and Government Procurement Service who will take over responsibility for some MOD commodity and IT procurement.

## NEWSREEL

## Passing a test

STERIA, a provider of IT-enabled business services, has passed an operational readiness test to act as prime systems integrator for the MOD's Land Systems Reference Centre, an independent test facility for military communications and information systems. The five-year contract will help safeguard the ongoing efficacy of military communication and information systems, enabling military operations across the globe.

## Wendy moves

WENDY Barnes, a former non-executive member of DE&S' Board, has joined the board of BMT Group as a non-executive director.

## Chart show

THIS edition of *desider* contains the latest version of the DE&S organisation wallchart, detailing the make-up of DE&S and contact names and e-mail addresses of its senior staff. Further copies of the chart can be obtained from the DE&S press office on Abbey Wood 30537 or 30349.

# Artillery hunter keeps up the hard battlefield work

## DE&S takes delivery of latest front line radar



Mark Bradley accepts MAMBA No 5 from Saab in Sweden

THE LATEST unit of a battlefield radar has been accepted by DE&S.

DE&S' Artillery Systems Programme Leader Mark Bradley travelled to Sweden to accept the fifth MAMBA (Mobile Artillery Monitoring Battlefield Radar) from Saab Electronic Defence Systems.

Delivered within four months from contract placement to delivery at 5th Regiment Royal Artillery, Marne Barracks, Catterick, MAMBA No 5 was based on Saab's reference system which was modified to

UK standard within two months.

Overcoming obstacles at the beginning of the conversion, Saab achieved a near-identical build standard within the framework of the contract.

"This was a significant achievement and testament to Saab's relationship with the MOD and its desire and commitment to deliver to the UK Army equipment that is the best in the world," said Mr Bradley.

"The formal acceptance of the system was very straightforward, due to all the hard work put in by the project

team at Abbey Wood and in particular by Saab."

Since entering service with the British Army in 2004, MAMBA has been in constant operational use including successful deployments on Operations Telic and Herrick providing both early warning and location of enemy fire.

Far exceeding its design parameters, MAMBA has proved itself to be a vital asset in the toolbox of the Royal Artillery. It will provide the backbone of Land Forces artillery hunting capability until 2026.



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It's 100 not out for 5 Squadron, celebrated by this distinctive tail design on an RAF Sentinel.  
Below: ASTOR training



## Surveillance training passes 1,000 mark at Waddington

MORE THAN 1,000 students have now been trained as aircrew on the RAF's Sentinel R1 surveillance aircraft.

Raytheon trains pilots, operators and engineers at RAF Waddington from all three services for the aircraft, which incorporates the company's ASTOR (Airborne Stand-off Radar) surveillance system, one of the most advanced ground surveillance systems in the world. Sentinel is flown by 5 Squadron from RAF Waddington.

Theory and practical training covers radar, communications, data links, mission planning and ASTOR concept of operations.

Martin Johnston, Head of ASTOR Training, said "The training model for operators teaches the processes and toolsets of the system, and allows the pilots to integrate and communicate with the mission crews.

"The designed courses also teach effective exploitation of the ASTOR product by operators in addition to application of effective communications between air and ground elements as far as combined operations are concerned."

One of the most advanced radar intelligence systems in the world, Sentinel R1 completed 66 successful reconnaissance missions and flew around 700 hours during its four-month deployment in Mali to provide accurate, 360-degree, real-time images of vast tracts of land and vital intelligence reports.

The Sentinel detachment returned from Mali in May, and continues to operate in support of Operation Herrick where it has been on permanent deployment since 2009.

ASTOR phase 1 training is carried out by Raytheon in the classroom and using the simulator over 6-10 weeks.

Phase 2 Training, carried out by the RAF, is in the Simulator and on board the aircraft over 10-15 flights.



□ The Sentinel's operator, 5 Squadron, is celebrating its centenary. Bob Delorge, Chief Executive of Raytheon UK, said: "In most recent times, the squadron has excelled in military operations over Afghanistan, Libya and Mali and as it celebrates its centenary, Raytheon congratulates and is extremely proud to support the global endeavours of No 5 Squadron."

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**QinetiQ**

## Speed record bid lands cash for more education



David Willetts, above right. Left: a vision of Bloodhound at speed

SCIENCE MINISTER David Willetts has opened the new Bloodhound Technical Centre in Avonmouth, Bristol, where the 1,000mph jet and rocket-powered racing car is now being assembled for a tilt at the world land speed record.

As recognition of the project's success – some of DE&S' youngest and most promising engineers have been involved – in inspiring children about science, technology, engineering and mathematics Mr Willetts announced a £1 million grant for Bloodhound to support its education and outreach mission. This is funded by the Engineering and Physical Sciences Research Council.

The funding will help the project's education team and 500 ambassadors extend this work.

Mr Willetts said: "Bloodhound is British science and engineering at its visionary best. The project's success will not only be measured in miles per hour, but also in how it inspires future generations. This new investment will help show even more young people how rewarding science and engineering careers can be."

The world land speed record of 763 mph is held by Thrust SSC, a UK team led by Bloodhound's project director Richard Noble and driven by Wg Cdr Andy Green.

### Iron Duke first with Artisan

HMS IRON DUKE has returned to sea after a 16-month upgrade and boasts one of the world's most advanced radar systems.

The Type 23 frigate is the first Royal Navy ship to be fitted with Artisan – a 3D radar up to five times better than the old version it replaces.

As part of a £100 million programme, Artisan (advanced radar, target indication, situational awareness and navigation) will be fitted to all the Navy's 13 Type 23s as well as the two future aircraft carriers.

The radar is built out of the same lightweight carbon glass fibre materials found on a Formula 1 car and weighs just 700kg (1,540lb).

It can track up to 800 targets simultaneously if they're 200 metres from Iron Duke or 200 kilometres (125 miles) away.

*Iron Duke's* upgrade, carried out by BAE Systems in Portsmouth, also included work on her other weapons systems and combat computers. Improvements to her ventilation mean she will be able to operate more efficiently in hot climates.

## Programme forces kit to comply with the law



Michael Bradley, DG Resources, and the Waterguard team. Back row from left: David Clark, Mike Ford, Brian Seymour, Peter Lister, Vicky Trainer, Harvey Walker, Julie Bishop, Colonel David Frankland, Paul Knight, Julie Bell, Jenni Arnold, Joff Williams, Martin Sanderson. Front: Paul Foulds, Liesa Clark, Tim Moores, Doug Clark, Charlotte Walker, Michael Bradley, Kulvinder Sooriya, David Rogers, Nigel Waters, Mick Nichol

THE MOD has set up a programme to make sure it complies with the law when materiel and equipment is exported and then re-imported into the UK.

The programme, known as Waterguard and based in Neighbourhood Two at Abbey Wood, will ensure the MOD provides unique evidence on an item of equipment when it is temporarily deployed outside the European Union which can be matched to it when it is re-imported. This applies to equipment redeployed from Afghanistan.

Also, when purchasing from outside the EU, contracts must be 'tax efficient' with costs considered up front for affordability. Data on whether

VAT and import duty has been paid and that the goods were in free EU circulation needs to be captured and stored.

Waterguard will help the MOD's compliance with HM Revenue and Customs, along with the International Traffic in Arms Regulations and the Defence Trade Co-operation Treaty, which the UK signed in 2007 and 2003 respectively.

US State Department and Department of Defense specify requirements to comply with obligations in the treaties. Failure will prejudice access to technology and could expose UK industry to financial penalties.

The MOD has to be able to provide evidence that is unique to an item of equipment and to be

able to track the item by location and condition. This information should start to be captured at point of acquisition.

Such requirements will mean a change in policy, process and procedures, information systems and the information the MOD contracts for.

Waterguard's Executive Board is chaired by DE&S Director General Resources Michael Bradley with Richard Jones, Director Financial Planning and Scrutiny, the senior responsible owner and Colonel David Frankland the programme manager.

Further information from Col Frankland DESFinFA-WaterguardProgman@mod.uk or on 9352 67000 or 03067985117.





## Carrier build reaches high point

NEW AERIAL images of *HMS Queen Elizabeth*, the 65,000-tonne aircraft carrier being assembled at Babcock's Rosyth Dockyard, have been released.

Images show the ship almost completely assembled, with both 'islands' in place.

All that remains to be fitted to the ship are two sponsons – flightdeck extensions – and the ramp or 'ski-jump' that gives aircraft an extra boost on take-off.

*HMS Queen Elizabeth* is the first of two new carriers for the Royal Navy delivered by the Aircraft Carrier Alliance. *HMS Prince of Wales* is currently under construction at shipyards across the UK.

Programme Director, Ian Booth, said: "These new images show clearly how far this programme has come. By the end of this year *HMS Queen Elizabeth* will be fully assembled and we are already looking forward to her launch in 2014.

"There are thousands of skilled men and women working on this programme and they should all feel proud of what they are accomplishing."

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The UK's submarine capability has taken a significant step forward with work beginning on the assembly of *Agamemnon*, the Royal Navy's sixth *Astute* class submarine.

The keel, the first part of the boat to be built, was unveiled at a ceremony at BAE Systems' shipyard in Barrow-in-Furness by Minister for Defence Equipment, Support and Technology Philip Dunne on 18th July.

It comes as the first two of the seven *Astute* class submarines, *HMS Astute* and *HMS Ambush*, are nearing completion of their extensive sea trials and have been handed over to the Royal Navy to begin to prepare for operations.

The seven *Astute* submarines are being built for the Royal Navy to replace the *Trafalgar* class submarines. *Astutes* have greater firepower, the most modern communications equipment and advanced stealth technology making them quieter than their predecessors and harder to detect.

*HMS Astute* and *HMS Ambush* are the first submarines in class accepted by Navy Command, which is responsible for operating all the Royal Navy's vessels. The next three submarines in the class, *Artful*, *Audacious* and *Anson* are all at varying stages of build. The keel laying for *Agamemnon* marks the next key milestone for the programme. The submarine is named after a legendary Greek king and follows a number of Royal Navy ships to carry the name. The first was a 64-gun ship commissioned in 1793 with a new commanding officer, Horatio Nelson. The ship was, reputedly, his favourite.

BAE Systems Maritime Submarines (BAES MS) is responsible for delivering all seven *Astute* submarines and for design of the successor to the *Vanguard* class, which will carry the UK's nuclear deterrent. DE&S has agreed a new contract with BAES MS that will help to





# Agamemnon – a submarine with big shoes to fill

Work begins on the sixth *Astute* boat and she already has a proud legacy

sustain the thousands of highly skilled defence jobs based at Barrow-in-Furness but drive down the costs of building future submarines.

Mr Dunne signed the contract to save around £380 million over the next eight years.

Rear Admiral Simon Lister, DE&S' Director of Submarines, said: "This is the sixth submarine in the *Astute* class and we expect her to be built more quickly and efficiently than her predecessors, demonstrating the effectiveness of the national submarine building capability in Barrow-in-Furness.

"New techniques by skilled staff in the back office and on the shop floor will deliver this key capability for the Royal Navy."

John Hudson, Managing Director for BAES MS, said: "This is a very important milestone for the programme and as we

mark the first step in one submarine's construction, we also acknowledge the importance of *HMS Astute* and *HMS Ambush* being handed over to the Royal Navy."

These highly effective submarines are engineered and built to provide the Royal Navy with unrivalled underwater capability. While *Agamemnon* has some way to go before it joins *HMS Astute* and *HMS Ambush* it will one day form part of a formidable class of submarines.

Ships are now built in a series of complete hull sections rather than around a single keel. But BAES MS retains the keel-laying ceremony as second in importance only to the launch. Today, a submarine starts life as a series of giant steel rings, fabricated and partially outfitted in the Barrow yard's manufacturing facility, the New Assembly Shop. The units are then transported to the Devonshire Dock Hall for major outfit of equipment, pipes, cables and ventilation. The keel unit is the first onto the build line in the hall.



# DE&S delivers a year of

The MOD's annual report and accounts charts a busy year of equipment delivery by DE&S

**D**efence Equipment and Support delivered equipment valued at nearly £8 billion to the Armed Forces in the last financial year and achieved in-service dates on ten major equipment programmes, the latest MOD accounts show.

The figures for 2012-13 show that total DE&S deliveries were £7.8 billion of equipment, including destroyers, combat aircraft and land equipment. As the single balance sheet owner for military equipment, at the end of the year DE&S was responsible for £58.9 billion of capital assets – up £2.5 billion over the course of the year.

DE&S also owns the majority of non-property assets and equipment under construction, which totalled £16.9 billion.

Highlights on direct support to operations included more than 550 troop-carrying flights to and from Afghanistan. Further freight deliveries by air totalled more than 19,500 tonnes of equipment. DE&S also delivered more than a billion litres of fuel to the Armed Forces.

Sixty-eight Urgent Operational Requirements valued at £500 million were delivered, including Black Hornet nano-unmanned surveillance system, helicopter dust-suppression systems, Foxhound protected vehicles and a range of infantry equipment.

The ten major equipment procurement projects formally accepted into service during the year were the Advanced Jet Trainer; Cutlass; Chinook Project Julius; Head Mounted Night Vision Systems; Medium Range Radar; Falcon Phase 1; Beyond Visual Range Air-to-Air Missile; Future Power; Small Arms Range Targetry System and Sentry Mode S.

## Key DE&S achievements on Maritime equipment included:

- *HMS Dragon* and *HMS Defender*, the fourth and fifth Type 45 destroyers, entered service with the Royal Navy, after successfully completing sea trials. The final ship in the class, *HMS Duncan*, will follow next year;
- The largest section of the aircraft carrier *Queen Elizabeth* was completed at the Clyde shipyard in November 2012. This 11,300 tonne segment – known as Lower Block 04 – was transported to Rosyth where it joined the rest of the ship;
- Two £350 million work packages were awarded as part of the assessment phase for the Successor programme;
- Contracts were placed for Phalanx air defence systems for the Royal Fleet Auxiliary, refit of *HMS Ocean*, and regeneration of the Royal Marines' fleet of Viking armoured personnel carriers;
- A £1.2 billion contract was placed to build *Audacious*, the fourth *Astute* class attack submarine. DE&S also committed another £1.5 billion to the remaining three submarines in the class and placed a contract for delivery and maintenance of UK nuclear submarine propulsion capability for the next ten years;
- The long term maintenance of Royal Fleet Auxiliary naval support ships was secured for another five years with contract extensions worth £349 million;
- The modified Merlin Mk2 anti-submarine helicopter was released to service and the Royal Navy started initial training last January.

## Key achievements for Land equipment included:

- The first Lynx Wildcat helicopters were released to service with the Army in April 2012;
- In April 2012 the Cutlass Large Explosive Ordnance Disposal Remote Control Vehicle was accepted into service by the Army;
- An upgrade to the Bowman tactical communications system – which integrates digital voice and data technology – is expected to complete by March 2015;
- DE&S placed a contract for the supply of an additional 76 Foxhound vehicles by General Dynamics Land Systems for use in support of current operations;
- In March 2013, the New Commercial Arrangement was signed with the Defence Support Group to deliver, repair and maintain much of the Army's equipment;
- A contract to provide the Armed Forces with more than 25,000 new Glock 17 pistols was awarded in October 2012, replacing the Browning 9mm pistol which has been in service since 1967.





# f achievement

## Key achievements for Air equipment included:

- The first Lightning II Joint Strike Fighters were delivered and flight testing and evaluation continued in the United States;
- The Typhoon force continued to grow, including standing up of the fourth Typhoon squadron in Scotland in September 2012, delivery of the 100th aircraft in January 2013, continuing progress developing its multi-role capability;
- In February 2013 a training service support contract for the A400M Atlas, worth £226 million over 18 years, was awarded. A £70 million contract was placed with Airbus Military to modify the UK A400M Atlas aircraft to accept the RAF's preferred defensive aids sub-system equipment and a contract was placed for support for large aircraft defensive aids.
- The build-up of core military capability of the Voyager air-to-air tanker and passenger transport aircraft continues with three aircraft accepted into service. ;
- Project Julius has introduced to service a new integrated cockpit and avionic mission system on the Chinook helicopter. This capability has already been used on operations in Afghanistan;
- Contracts totalling around £38 million were placed with Raytheon Systems UK for an additional 624 Paveway IV Precision Guided Bombs.

## Key achievements for Defence-wide equipment included:

- Bernard Gray launched Inventory Management Transformation which resulted in avoidance of about £400 million of inventory management expenditure last year;
- The first two increments of the highly resilient broadband and voice Falcon communications system were accepted into service;
- The Computer Information System for the flagship new Defence Geospatial Intelligence Fusion Centre at RAF Wyton was delivered on time in March 2013. It was one of the most challenging programmes in defence;
- The latest secure military Skynet 5D communications satellite was launched as part of a £4 billion Private Finance Initiative programme;
- The Medical and General Supplies team shipped close to 18,000 blood products, mainly to Afghanistan – equating to the turnover of an NHS district hospital while Defence Fuels bought 1,189 million litres of fuel and maintained the fuel supply to Afghanistan.
- 8.3 million tonnes of freight was moved via Central Asia to Afghanistan, and the Disposal Services Authority achieved £40 million in net sales.



# Bristol helps Atlas to take flight

## Airbus UK unveils the first wings for the RAF's new transport aircraft

The first set of wings for the RAF's next generation transport aircraft have been completed.

Constructed at Airbus UK in Filton, Bristol, the wings for the A400M Atlas will now be prepared for transportation to the company's final assembly line in Seville, Spain, where it will meet up with the other major aircraft assemblies from which the UK's first A400M aircraft will be built.

This first aircraft is expected to be delivered to the RAF next year, and will eventually replace the current fleet of C-130 Hercules.

It will be able to transport around double the amount of cargo than its predecessor, capable of carrying 116 military personnel, helicopters and large military protected mobility vehicles such as Foxhound and Ridgback.

Air Marshal Simon Bollom, Chief of Materiel (Air) at DE&S, said: "Completion of the wings for this phenomenal aircraft is a real milestone on the A400M Atlas programme.

"Using next generation technology and with a greater capacity to transport troops and vehicles, Atlas is destined to become an essential part of the UK's military and humanitarian operations for years to come."

Huw Cable, team leader for the A400M Atlas programme at DE&S, added: "This has been a complex project and to finally see the aircraft coming to life is incredible. The A400M Atlas represents a new generation of aircraft fit for the 21st century."

The UK is buying 22 of the aircraft from Airbus Military. The first aircraft is expected to be delivered for training to crews at RAF Brize Norton later next

year. Along with Voyager and C-17, the A400M Atlas will provide the UK military's future air transport force.

The UK is one of seven nations

acquiring Atlas from Airbus Military. The development and build of the aircraft has created or secured work for 8,000 people in the UK.

Atlas partners at Filton, below from left: Huw Cable (DE&S A440M leader), Air Marshal Simon Bollom (DE&S Chief of Materiel Air), Richard Thompson (CEO Airbus Military UK at Filton), Gp Capt Stephen Wilcock (DE&S A440M deputy leader)







# Meeting the challenge

**The MOD's Permanent Secretary has praised the work of civil servants while outlining some of the challenges the department is facing**

**T**he MOD's Permanent Secretary has praised the work of civil servants while outlining some of the challenges the department is facing.

Jon Thompson was making the keynote speech on day three of Civil Service Live – Be Exceptional, which attracted more than 1,000 civil servants from across the west, including DE&S staff, to the event in Bristol.

"I have been really impressed with the qualities of the people I have met in the Civil Service," he said. "In the MOD more than 98 per cent of our civil servants don't work in traditional policy roles. They undertake roles in operational delivery, and work in science and technology to name just two, and outside this hall you will find some tremendous displays from the MOD which has a huge presence in Bristol."

Jon explained that transforming defence was part of the biggest transformation programme in Europe and that the MOD was playing its part in the wider reform of the Civil Service.

Improving learning and development, attracting skilled programme and project managers, improving performance management, streamlining processes and helping people take more responsibility for their work were all aims of improving the service the MOD offered to the

Armed Forces and the taxpayer. They would be reflected across the wider Civil Service.

Jon posed a series of questions to the large audience to outline what the challenges were, and whether the Civil



Service was going far enough to meet them.

"How do we improve learning and development? How do we align with an assured service across government and how do we bring in the best from private industry?" he asked.

"Project and programme management is an essential part of our business. We spend £7 billion on equipment projects every year and have some fantastic project and programme managers but

I query whether we have enough of them. We have been working very hard on the best way the MOD can attract more talented project and programme managers.

"How do we get the best blend of civil servant, military and contractors? How do we get the private sector to work with us to deliver services? How can we get the best from what could be provided outside the MOD?"

In his speech to civil servants in London earlier in the week Cabinet Secretary Sir Jeremy Heywood warned that the UK economy may take up to 20 years to recover its pre-recession strength. This would have a huge effect on the amount of money Government had to spend.

Jon said: "We have had to take out 20 per cent of our staff over the last four years. But in the years preceding it we built up an incredible deficit. The assumption that public spending on defence would rise faster than the rate of inflation was an 'interesting' one. The deal we have done on public procurement with the Government Procurement Service which aims to drive down the cost of goods is a really good step for Government as a whole. And we will explore further efficiencies after 2015."

Staff at the event used the chance to find out what 'exceptional' work is going on across government departments in the south west.

A range of presentations, workshops and clinics along with a variety of exhibition stands headlined themes including: New Delivery Models, The Way We Work, Working with Local Government and our Local Community, Exceptional Ideas, Digital by Default and Developing the Civil Service.

A number of DE&S teams contributed to the event showcasing the work for their teams including: the Materiel Strategy Team, Defence Clothing, Terrier Project Team, Submarine Dismantling Project, Supplier Relations, Technology Delivery, Apprentices and Graduates and specialist skills stands.

Exhibitors from other government departments included the Civil Service Academy, Civil Service Local, Ministry of Justice, Planning Inspectorate, Government Communications Headquarters, Driver and Vehicle Licensing Agency, Rural Payments Agency, and Defence Business Services.

Stephen Gale for CS Local (South West) said: "Many thanks and congratulations to everyone who helped with the event. The energy and commitment was fantastic, and the unfulfilled appetite apparent among many of the delegates represents a major opportunity for us to take forward."

*"I have been really impressed with the qualities of the people I have met in the Civil Service"*  
– Jon Thompson





Pictures: David Tucker



*"Just to say how much I enjoyed the Civil Service Live Exhibition, I found it really useful. Many thanks."*



*"Today was a really good event and well done to all involved for the hard work you put in to making it a success."*





## New service will deliver specialist functions worldwide

**SEAWORK INTERNATIONAL** at Southampton hosted the first meeting of the newly-created MOD Maritime Specialist Service.

The Service will provide defence with a supporting cadre of professionally qualified Civil Service mariners able to deliver specialist maritime functions at home and in operational theatres.

This important skills group is under the professional leadership of Commodore Bill Walworth – Commodore of the Royal Fleet Auxiliary – as the champion for civilian operated military shipping and maritime skills.

The Service has been created from professional mariners working in Harbour Master's departments, Admiralty pilots, marine services and moorings and salvage teams.

It aspires to ensure long term sustainability of maritime qualification and experience, enable greater synergies between existing specialist functions and locations, and improve opportunities for career development among its specialists.

Commodore Walworth said: "Bringing together for the first time representatives of the MOD's professional mariners at Sea Work is a real sign of commitment and I look forward to seeing the Service develop over the coming months."

Professional mariners who should be in the Service should contact Lt Cdr Laurence Mallinson at DESNBOC-WCA-S02-Policy@MOD.UK or 030 679 34995.

The first meeting of the new Maritime Specialist Service with its Executive, front, from left: Mr Morgyn Davies of DE&S Salvage and Marine Operations, Cdre Bill Walworth RFA, Capt Phil Buckley RN (DE&S Waterfront Coherence and Assurance), Ms Sally Jones (DE&S Defence Marine Services team leader)



## Minister takes a closer look at an MOD GOCO



Andrew Jupp accompanies Philip Dunne (centre) and Andy Mackinder (right) during an Aldermaston tour

A DEEPER understanding of nuclear warhead technology along with how a Government Owned, Contractor Operated organisation is arranged were high on the ministerial agenda at Aldermaston last month.

Philip Dunne, Minister for Defence Equipment, Support and Technology, visited the Atomic Weapons Establishment (AWE) to hear about capability investments, GOCO arrangements, and how the company supports and delivers Continuous At Sea Deterrence.

AWE has some of the most advanced research, design and production facilities in the world, builds and maintains warheads for Trident and has been at the forefront of UK nuclear deterrence for more

than 60 years. AWE is a GOCO run under contract with the MOD. AWE sites are owned by the MOD and day-to-day management of the contract is by the Strategic Weapons team at Abbey Wood and Aldermaston.

Hosted by Managing Director Andrew Jupp, Mr Dunne was given an overview of AWE's weapons history, its international relationships, and support to the UK's national nuclear security strategy.

He was also given an insight into the progress and development of Circinus, the Technology Development Centre, and Pegasus. Circinus is a high explosive fabrication facility; the Technology Development Centre is a joint radiographic and diagnostics

facility; and Pegasus is scheduled to replace the existing facility for the manufacture of enriched uranium components.

Mr Jupp was accompanied by Andy Mackinder, Head of Strategic Weapons Project Team, and Martin White, Head of Strategic Technologies, representing the MOD.

Mr Jupp said: "We were delighted to host the Minister, and demonstrate to him the investment and work that's taking place at Aldermaston in delivering our programme to Government."

"The visit also gave us the opportunity to reinforce the importance of our relationship with MOD and the unique expertise and skills that AWE brings to UK defence."



# A victim of his own success

**DE&S' Chief of Staff has left his post to return to London after a two-year stint at Abbey Wood**

SIMON CHOLERTON arrived at DE&S with some trepidation – a gamekeeper turning poacher after a background in central scrutiny. He leaves his post having set up DE&S' interim structure so successfully that his Chief of Staff title disappears with him.

"Although there had been a Chief of Staff at Abbey Wood before, it was pretty much a new job when I arrived, handling near-term change programmes and corporate issues which neither fell to finance nor human resources," he recalled. "But after the changes under Interim Structure my responsibilities will either now cease or be managed elsewhere."

Changes were swift and effective. He said: "The Interim Structure project has got us to a position where we can corporately match the amount of human resource we think we need to do the job under our current practices with the outputs that the department requires of us. I consider this quite a success. It enabled us to have an appropriate operating cost settlement over a three-year period which brought us stability and is evidenced now by the fact that, almost uniquely in government, DE&S can have a significant recruitment campaign. But change doesn't stop there and I wish the team well in taking forward a further review in the run up to the final year of Spending Review 13."

The interim structure looked critically at senior management posts. "I am the victim of my own success in that one of the early things we did was to look at senior management to achieve reductions against targets that had been set in the Strategic Defence and Security Review,"

he said. "The approach we took at Board level was to focus on project delivery rather than corporate services so, with mergers to form Director Technical, and the abolition of my post, we were able to save two 2-star posts."

Dr Cholerton is also proud of his work on the UK's Defence Trade and Co-operation Treaty with the United States. He enjoyed working with the State Department to implement the Treaty and is glad to see companies signing up to become part of the Treaty's approved community and the first articles being exported under the Treaty.

He leaves Bristol for London to promote defence and security exports at UK Trade and Industry. He is, unsurprisingly, a firm supporter of the thinking behind the Materiel Strategy.

"I think in Government we typically under-invest in skills and processes and that's the thing I would look to a private sector partner to bring into the organisation," he said. "We take a 'one-size fits all' approach to public sector management, when DE&S as a professional engineering, project and contracts management organisation has different needs to, say, a central government department. I had that view before I arrived and I continue to have that view today."

"Furthermore, we often fail to invest in ourselves because, understandably, there is always a much more urgent pressing issue in defence that has to be addressed first, whether it's operational, or the need for military equipment. And

I've always seen a move to the private sector with a partner building on its previous investment in skills and tools as being something very positive."

His experiences in Bristol are positive ones too. "What is good about DE&S is the drive that people bring and the loyalty they have to their projects," he said. "Despite being a Whitehall Warrior, I found everybody to be extremely welcoming. I have been lucky to be supported by some very dedicated and hard working colleagues who I will very much miss. At its best DE&S is a very professional organisation, whether this is delivering the latest protected mobility vehicles to theatre or producing a quality publication like *desider!*"

Interview: Steve Moore



# And here's the Rubb!

Advertising  
feature

A PROTOTYPE Rubb Military aircraft hangar was unveiled at an Italian air base in support of operations over Libya.

The RAF's 5001 Squadron erected eleven Rubb shelters, including the prototype, at Gioia del Colle air base in southern Italy.

The Air Combat Service Support Unit routinely deploys around the world to provide and maintain expeditionary airfield facilities to support deployed air operations.

Eleven Rubb rapid deployment structures were brought out of the MOD's depot to protect the vital aircraft in the field. The shelters include eight 18.2m span x 18m long sun canopies (in service since 1993); one 9.1m x 16.8m Environmentally Controlled Armourment Storage Shelter; one standard 20.4m x 12m Expeditionary Forces Aircraft Shelter System (EFASS) featuring Trident doors at both ends; and the new prototype 20.4m x 24m EFASS, the first in the field to include a Trident door at one end and a 5m x 5m Roller Shutter Door at the rear of the hangar.

Sales Manager Andrew Knox explains: "The MOD team were on a training session at our Gateshead factory when they saw a similar structure in our yard. They thought it was the ideal application to provide extra space within the hangar and allow vehicles to enter and exit at the rear for maintenance

purposes while the aircraft remained in place at the front."

Rubb specialises in providing re-locatable and robust aluminium framed PVC fabric clad buildings.

Andrew Knox added: "Eight of the eleven hangars were originally designed and manufactured in 1993 and have seen several different locations and operations over that period of time.

"After each operation the hangars are dismantled, repacked and sent back to Rubb Buildings Ltd for refurbishment ready for their next stint out in the field."

The Rubb Building range has a proven record in theatre and is used by the UK, USA and Canadian forces. Rubb Managing Director Ian Hindmoor added: "The addition of the Roller Shutter Door enhances the

□ Rubb Buildings Ltd is a world leader in design and manufacture of custom-made relocatable engineered fabric structures.

Highlights include ground-breaking military buildings (aircraft hangars, shelters, storage facilities), specialist sports buildings and structures for a variety of sectors including aviation, ports, construction, bulk storage and environmental (waste and recycling).

All products are designed and manufactured at Rubb's UK plant in Gateshead, Tyne and Wear. The Rubb Group has plants in the USA, Norway, Poland and China.

For further information contact Marketing Manager Clare Wilson on (0191) 482 2211, email [cwilson@rubb.com](mailto:cwilson@rubb.com) or visit [www.rubbmilitary.com](http://www.rubbmilitary.com)

A Rubb  
20.4m  
EFASS at  
Kandahar



20.4m EFASS even further, demonstrates the flexibility of the system and shows that a simple modification can create extra space and diversify options of how the building is used."

Rubb will be promoting its Expeditionary Forces Aircraft Shelter System (EFASS) at DSEi, ExCeL London from September 10th-13th, 2013 at stand S4-133.

## Through Life Support.

We have designed, manufactured, delivered and supported more than 5,000 tactical shelters in over 200 configurations including deployable C4ISTAR, medical, scientific investigation, command and control and ground control systems for over sixty years.

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**Marshall**





# Talk to the Board Live goes on the road



Report: Steve Sims Picture: Andrew Linnett

The Board answers questions at Corsham, from left: Air Vice-Marshal Julian Young, Pete Worrall, Shirley Spencer and Gerry Cantwell

TALK TO the Board Live has gone on the road, offering staff at Corsham the chance to quiz board members.

Board members have held two successful sessions at Abbey Wood, answering questions from staff on a range of topics.

Seventy-five staff from across DE&S' Information Systems and Services (ISS) Operating Centre gathered in the air-conditioned comfort of the Corsham Conference Suite for the first event 'away from home' on 15th July.

The panel of senior DE&S personnel was made up of Chief of Materiel (Joint Enablers) Pete Worrall; new Director ISS Gerry

Cantwell; Director Technology Air Vice-Marshal Julian Young and acting Director Human Resources Shirley Spencer.

They answered a selection of questions including the role of Price Waterhouse Cooper and the ongoing bulk recruitment process; the performance of the Defence Information Infrastructure and the Government's digital agenda and its relationship with the current Defence Core Networks Services Programme.

Board members had no previous hint of what questions were to be asked at the hour-long session, yet provided comprehensive answers and

encouraged the audience to debate each subject.

Feedback has been positive, with all those questioned saying the event was worthwhile.

The audience appreciated the openness and candour of the panel and the opportunity to make their views known.

At the end of the session Mr Worrall thanked the audience for what he described as some "really taxing and challenging questions on a broad range of subjects".

It is hoped to run a second Talk To The Board Live at Corsham sometime soon. Meanwhile Portsmouth naval base is also on the Live agenda.

## Banshee flight sees contract pass milestone

THE 1,000th flight has taken place under an aerial target contract between DE&S and QinetiQ.

The Combined Aerial Target Service (CATS) contract is managed in partnership with QinetiQ by DE&S' Trials, Evaluation Services and Targets team.

The flight of the aerial target took place in Wales and was a Banshee target delivered by the Manorbier Delivery Team.

All CATS delivery teams have played an important part in sustaining high levels of service and customer satisfaction with regular scores that have exceeded customer expectations.

CATS has also enjoyed a reducing number of reportable occurrences with a corresponding increase in target reliability and availability to the Front Line Commands.

Success is down to a team effort from staff at Abbey Wood, Malvern, Boscombe Down and Farnborough, along with people at Aberporth and the Hebrides Ranges, where aerial targets are routinely flown.

WORK HAS begun on a six-month docking period for minehunter *HMS Pembroke*, right, in Rosyth.

Work will mirror that carried out on *HMS Penzance*, which departed Babcock's yard recently.

*HMS Pembroke*, a *Sandown* class vessel, will undergo her Support Period (Docking) under the Surface Ship Support Alliance (DE&S, Babcock and BAE Systems) class output management phase 2 arrangements. Babcock leads the *Sandown* class management.

Along with a host of upgrades, work will also include elements as a result of knowledge gained from previous *Sandown* class upkeeps, including slow speed drive alignment checks and renewal of all propeller unit blade seals.

Babcock Warships Managing Director Mike Whalley said: "This is the third *Sandown* class support period to be carried out since the introduction of full arrangements, and will benefit from the knowledge and experience gained by the team from *HMS Grimsby* and recently completed *HMS Penzance*, as well as previous successful *Sandown* class support periods."



## Pembroke is next under class output management

DE&S' Mine Countermeasures team leader Captain Matt Harrison added: "I look forward to the continued good working relationship of all stakeholders and implementation of the latest lessons learned from *HMS Penzance* to deliver *HMS Pembroke* on time and within budget."

*HMS Pembroke* is expected to leave Rosyth for sea trials at the end of this year.

# Action stations!

Abbey Wood's stars prove they are the ones to beat in the MOD's annual sporting event at the University of Bath

THE SPORTSMEN and women of DE&S – and Abbey Wood in particular – enjoyed an MOD sports day to remember as they clinched a host of titles at the University of Bath.

Netball, cricket, hockey and football were four sports the organisation's players excelled in although they were pushed all the way by the civil servants of Taunton in the annual extravaganza organised by the Defence Sports and Recreational Association.

Nowhere was the spirit of the event more keenly displayed than in the tennis competition's mixed doubles event where Ada Walker and her playing partner Mark Nixon won the trophy with a tie-break win in the final.

Ada, from the Defence Information Services team in Corsham, and Mark, from Land Equipment, were making their eighth appearance in the competition. "I think you could say it was more a triumph of perseverance over skill," said Ada afterwards.

DE&S could not repeat the victory in the men's doubles event though, where Justin Kraushar and Paul Nelson of the Met Office beat a pairing of Tom Arthurs of Feltham and his former MOD colleague Aubrey Barratt.

Elsewhere Robin Jarvis and Kay Smith continued their DE&S dominance of the archery event while there was victory in the cricket for Abbey Wood's A team, skippered by Ramsay Davis, who defeated Paul Gosling's Feltham side in the final.

There was an all-Abbey Wood final in the football which saw 'Austria', captained by Rich Cable, pip the Alex Wells-led 'Ecuador' to the title.

In the hockey it was Abbey Wood



Champions: Mark Nixon and Ada Walker of Corsham

against Taunton, with Abbey Wood's first team, captained by Dani Spencer, edging out the Hydro Pirates. The Pirates were winners of the penalty flick competition.

And in the netball, Victoria Banton skippered Abbey Wood firsts to victory over the Dstl Swans from Porton Down. Taunton's UK Hydrographic Office won the plate competition.

Taunton added the rounders competition to their honours along with the Jubilee Shield, the inter-establishment athletics tournament which saw Abbey Wood coming in a distant second. But Abbey Wood dominated the tug of war, with two teams making the final, the Ball Bashers taking on and outhauling the Desperados.







## Safety first! Devonport gets out and about on holiday disaster prevention

Mind how you go: a kayaker gets some safety advice from Devonport's police off the coast of Plymouth

PERSONNEL IN Devonport are offering safety advice to those who enjoy their leisure time afloat off the coast of Plymouth.

In the summer holidays the number of people taking to the water in the port increases.

The Queen's Harbour Master and MOD Marine Unit are urging leisure users to take advice as part of a water safety initiative.

The Royal Navy and MOD Police play a crucial role in ensuring safe passage and security of warships and submarines.

They are vital eyes and ears on the water 24 hours a day and play a role in helping and

rescuing people on the water.

They are appealing to paddle boarders, windsurfers, yachtsmen, powerboat and dinghy sailors to be properly equipped and informed before going on the water.

Commander Carl Necker, Queen's Harbour Master, said: "It is always great to see so many people enjoying getting out on the water and partaking in a broad spectrum of activities. A few simple precautions will help ensure the day goes smoothly and everyone returns ashore safely."

The MOD Marine Unit has a fleet of launches and smaller rigid-hulled inflatable boats

patrolling the water day and night protecting the naval base. Among their tasks are rescuing tired windsurfers or swimmers in difficulty and attending boats broken down or adrift with no-one on board.

Inspector Gordon Peters said: "We come across boat users who are ill equipped to be out on the sea; common problems include operating without safety equipment – no life jackets, radio or flares, no tools or paddles should their engine fail, and operating outboard motors without kill cords to disable the boat should they fall out of it.

"We appeal to all boat owners – treat the sea with respect."

## MOD bolsters cyber security

THE MOD has joined an innovative partnership with a group of Britain's leading defence companies to bolster security of the UK against cyber attack through action within the defence industry.

The Defence Cyber Protection Partnership aims to meet the emerging threat to the UK defence supply chain by:

- increasing awareness of cyber risks;
- sharing threat intelligence and;
- defining risk-driven approaches to applying cyber security standards.

The partnership includes the Government Communications Headquarters and nine companies, BAE Systems, BT, Cassidian, CGI, Hewlett Packard, Lockheed Martin, Rolls-Royce, Selex ES and Thales UK.

Minister for Defence Equipment, Support and Technology Philip Dunne, said: "Government and industry can work together – sharing information, experience and expertise – to make sure we do everything we can to protect critical networks, ensuring that the business of defence is robustly protected."

## 'Passport' system to keep key skills in DE&S Ships

AN INUAGURAL six-month staff development programme in DE&S Ships has seen a three-strong team win a People Award for suggestions to develop and retain key skills in their Operating Centre.

The centre put the programme in place for 35 C1 and B2 grades on long term promotion following the demise of the Band B assessment centre which left a gap in development opportunities.

At the end of the six months Director Ships Tony Graham set up a series of challenges to address key issues and provide those opportunities.

The teams had six months to assess the scope of their challenge, identify and engage a range of experts and stakeholders, and propose how their solution could be achieved.

The highest scoring team, mentored by 1\* Steve Hyde (Head of Maritime Combat



From left: Tony Howard, John Murphy and Pete Watson

Systems), consisted of John Murphy (Maritime Equipment Transformation),

Pete Watson (Safety and Environmental Protection) and Tony Howard (Underwater and Electronic Warfare).

The team proposed a 'passport' system to help monitor, develop and sustain key skills across the centre. The team received their D Ships People Award and will take forward their recommendations with support from the wider Operating Centre and the Ships People Board.

Mr Watson said: "This was a positive learning experience. I was taken out of my comfort zone, exposed to senior staff with more strategic views and given an opportunity to put our ideas directly to the Ships Board."

The success of this first development programme has encouraged Director Ships to establish further development events for ships staff up to and including B1s over the next 12-15 months.

## Long years of special service

SIXTY-NINE years of service have been rewarded with two Imperial Service Medals in a ceremony at Logistic Commodities and Services, Donnington.

Mrs Surinder Hothi, who has completed 34 years, and Mrs Sue Kilford, 35 years, both of Intelligence, Surveillance, Target Acquisition and Reconnaissance, received their medals from Brigadier Rob Meinertzhagen.

The presentation was attended by family and colleagues including team leaders of Force Protection, Special Projects SCM and Special Projects CISR.



Long service: Surinder and Sue

## Sun, sea and netball for ABW in Spain

RACHAEL ADAMS of Quality, Safety and Environmental Protection led the Abbey Wood netball team to Spain for the team's first netball tournament abroad.

The two-day tournament, which was organised by 'Sun, Sea, Sports' took place at Lloret de Mar in June.

Competing teams represented a variety of clubs from the UK and across Europe.

Abbey Wood won two and drew one of their eight games to finish sixth overall.

They hope to take two teams to the tournament next year.

# Graduates shine in the firing line

DE&S' FUTURE engineers and scientists have been developing their skills and knowledge in a series of discussions and presentations.

The graduates, all part of the Defence Engineering and Science Group (DESG) and based in DE&S sites across the UK, have formed discussion groups to present on a series of topics at Abbey Wood.

Their findings were unveiled in a series of presentations in the Central Facilities Building on 16th July.

All groups were extensively questioned by subject matter experts afterwards, and judged on the quality of their reports and the effectiveness of their presentations.

The aim of the event was to provide future engineers with the chance to develop knowledge and skills critical for working in a professional and modern organisation.

"In compiling their reports and presentations the graduates have the chance to chair meetings and lead discussions on the issues surrounding their topics. It's a good opportunity to fine tune their 'softer' skills," said Daniel Richards, DESG training manager.

"And they are also learning about the wider MOD and the users and stakeholder community. Bringing many of them to Bristol helps in their networking.

"It was a good day. Even the ones who don't have the best presentation skills I have huge respect for. It's a big auditorium when you are standing there at the lectern. It's impressive to see them speak publicly and answer the difficult questions."



Firing line: Lauren Jenkins, Mike Larking and Michael Corcoran get to grips with questions on live firing and simulated testing during their presentation

### Presentations

**Achieving balance between live firing and simulated testing in the life cycle of complex weapons:** (Lauren Jenkins, Richard Ward, Rory O'Brien, Laura Bushfield, Jon Hand, Michael Larking, Michael Corcoran, James Gitt).

**Optimising modelling and simulation in complex weapons through life:** (Christopher Ramsay, James Sneddon, David McCrossan, Savraj Sidhu, Palmer James, Jonathan Batterson, Nandeep Chaggar, Ian Peters, Rob Culverwell).

**Electronic flight bags – the future for military mission planning:** (Rebecca Stonhill, Thomas Padden, Danielle Smith, Scott Pickard, Maxwell Malpass, Gemma Brown, Matthew Berringer).

**What is the future IED capability?** (Adam Wilkinson, William Bateman, Davor Bokhari, Darren Fillis, Alex Tran, Richard Crocker).

**Can water become more economical in military operations?** (Jacob Snelson, Joji Kawaguchi, Candice Allanson, Craig Fletcher, Priyatharsan Rajadurai, Jessica Roberts, David Hall, James Arthur, Alex Neale, Kiran Gurung, Alexander Butterworth).



## Awards

### INDIVIDUAL AWARDS

Yve Lambert from the Logistic Network Enabled Capability Business Unit.

Flt Lt Gareth Bath from the Logistic Network Enabled Capability Business Unit.

### TEAM AWARDS

Base Management Inventory and Warehouse Management System – Rob Wilkinson, John Philips and Ian Marshal.

Defence Inventory Briefing Support Team – Elinor Lovelock, Cdr Mat Cottis, Kevin Lench, Lisa Galeozzie, Maj Stuart Jones and Mrs Linda Headley.

Stock Transition Programme Team – Glyn Duffield, Terry Hankin, Jan Harkin, Carolyn Davis, Chris Roberts, Paul Larcombe, Les Paulson, Marion Hall, Gaynor Janes, Johnny Gustar and Debbie Newman

Application Migration Team – Chris Cox, John Curtis, WO2 Wayne Barker, Karol Chrzanowski, Luke Walsh, Sqd Ldr Mark Brown, Scott Wright, Flt Sgt Martyn Croft, Malcolm Button, Kevin Murphy, Flt Lt Gareth Pickard, Clint Bennett Sgt Paul Price and Sgt David Sopp

Management of the Joint Deployed Inventory Project Management Team – Cdr Phillip Waterhouse, Cdr John Edge, Angie Pike, Neil Clark, Andy O'Donnell

D&IS D41 Team – FS Carl Dowdell, Sgt Adrian Thorne, Sgt Alan Duncan, Cpl Anthony Armstrong, Russell Matthews, Michael Gadsdon

Defence Support Chain and Operations Business Unit Charter Airlift Team – Sqn Ldr Elizabeth Taylor, Flt Lt Trevor Batey, Sqn Ldr Darren Emmett, WO Elisha Evans, Flt Sgt Duncan Metcalfe

DSCOM Defence Passenger and Reservations Centre Team – Isobel Riley, Toni Date, Kelly Ware, Robin Rawlings, Sgt Jason Murphy, Cpl Paul Robb, Rebecca Felski

DSCOM Logistic Plans Team – Maj Dave Miller, Lt Cdr Scott Bell, Maj Dan Warren, Dan Stubbins

## Quality support earns its rewards

Above Major General Copeland, front centre, joins the Joint Support Chain commendation winners

MAJOR GENERAL Ian Copeland – Director of the Joint Support Chain Operating Centre – held a commendations ceremony for members of the Joint Support Chain. Members were presented with commendations in front of family, friends and work colleagues.

Maj-Gen Copeland explained how commendations recognised excellent work against the backdrop of continuous change and reductions

in personnel across the organisation.

He said how amazed he was that people throughout the Joint Support Chain continued to deliver in outstanding ways with fewer people, and thanked all for their efforts.

There were two individual commendations and nine team commendations presented, totalling 63 military and civilian members of the Joint Support Chain.

## First-timer Colin crowned king of Corsham golfers



An early start for, from left: Chris Mountain (Selex ES), Sqn Ldr Mike Brydon (Society Officer in Charge), SSgt Dave King and Ron Preston (Society members)

Below: Nik Beecher of Selex ES presents the trophy to new champion Colin Sawyer



GREAT PLAY by Colin Sawyer saw him crowned the Corsham Golf Society champion golfer for 2013 after 36 holes at Cumberwell Park, near Bradford-on-Avon.

In his maiden Championships, Colin came in with an excellent gross total of 152, nine shots ahead of Mick Brindley in second and ten ahead of third-placed Dave Appleyard.

On a day at the end of June where rain stayed away for all but the last nine holes, Alan Barrett played well to take the Net Trophy while the Stableford Trophy was won by Mark Wood.

Four Selex ES staff joined Society members for the day and, thanks to their sponsorship, all golfers left with at least a trophy or a prize.

Selex ES, formally Vega, is part of the Atos team recently appointed as Defence Core Network strategic partner. The partner is supporting the DCNS programme to develop services and organisational strategy for future information and communications systems to deliver continuity of service, value for money and enhance the information services that

support UK Forces worldwide. The Golf Society is open to any serving or retired member of the services with an affiliation to Corsham. Competitors on the day came from Corsham, Colerne, Warminster and Abbey Wood, among other locations.

# DE&S takes its skills to the next generation

DE&S IS doing its bit to bring on future generations of scientists and engineers.

Working with the Institution of Mechanical Engineers, a group from Director Technical Engineering Skills Development Team, including graduates and apprentices, represented DE&S at the Cheltenham Science Festival.

The annual week-long festival engages people from eight to 16 in science, technology, engineering and maths and sees 40,000 visitors a year.

Led by Lt Col Ian Parsons, Western chairman of the IMechE, DE&S graduates and apprentices helped set up and staff interactive activities to promote careers, as well as raising the profile of DE&S' apprentice and graduate schemes.

Activities included an interactive demonstration of wind turbines and gearing, along with a custom-made gearbox puzzle showing the effects of gear ratios.

Graduates from Defence Engineering and Science Group ran workshops for schoolchildren to design, build and test a simple air-launched line-thrower capable of carrying a thin string line across a 15-metre gap to rescue 'stranded disaster victims'. Youngsters were encouraged to think about the engineering and scientific principles.

The groups all built successful line-throwers and launched them 15 metres using nothing but a bicycle pump, plumbing pipe, ball valves and some cardboard fins, showing real creative flair.



"This event represented a great opportunity for the graduates and apprentices to plan, manage and deliver something with very limited resources in a short timescale, with a specific goal in mind," said Tracey Cruse of Director Technical.

"Nobody was prepared for the hordes of children that poured in, nor how footsore everyone would be after a week on their feet. But everybody enjoyed themselves and the stand was received with overwhelmingly positive feedback from festival organisers and the public."



Above: Cheltenham pupils get down to business with equipment supplied by DE&S

Left: youngsters get the benefit of Scott

Pickard's engineering knowledge

Below: Scott and James Southard besieged by Cheltenham's budding young scientists



## Special events help charity boost its support

A COMBINATION of Christmas raffles, donations and other events in the Special Projects CISR delivery team has earned £1,300 for charity.

The money has gone to Paul's Place in Coalpit Heath, near Bristol which supports physically and cognitively impaired adults and provides respite for relatives and carers.

The team, left, enrolled Clive Tarver, Director Intelligence, Surveillance, Target Acquisition and Reconnaissance,

to complete the Three Peaks Challenge of Ben Nevis, Scafell Pike and Snowdon, plus travelling, all within 24 hours. The event's team, pictured left, raised another £1,000 for Paul's Place.

Kath Aldom, founder of Paul's Place said: "We are so grateful to SPCISR and ISTAR for the donations and support. Since 2008, more than £7,300 has been raised which we have used towards our sensory garden and other specialist equipment."





Inspiring: walkers complete their Clarendon Way trek

## Cathedral trek inspires walkers

A DE&S team of walkers has raised more than £2,000 for children and young adults with life-limiting conditions.

The walkers, most of whom work in the Long Term Partnering Arrangement with QinetiQ, took part in a sponsored walk from Winchester Cathedral to Salisbury Cathedral along the Clarendon Way.

Calling themselves 'The Evaluators' as a reminder of the day job, they set themselves a £1,500 target towards the valuable work of Naomi House and Jacksplace near Winchester which helps youngsters and their families from across the south.

## New gun mount is a GEM of an idea

A NEW dual gun mount for the Minigun and the General Purpose Machine Gun has earned Charles Fox a GEMS award.

Mr Fox of DE&S Ships designed his new mount as an aid to operators of the Royal Navy's complex Minigun weapon system.

The new mount means there is less equipment required to be taken to ranges for operator training. A Minigun tripod can now be used for GPMG training too.

It also means pedestals and base mountings do not have to be bought for GPMG training, and Minigun operators can be trained to operational standard without the need for more expensive firings from a ship at sea. Operators can now train in a less stressful environment.

David Rafkin has won a GEMS award for his idea to use chip detector relay panels from disposal aircraft to solve a problem which emerged on a Sea King Mk3 main rotor gearbox chip detector system.

The problem was traced to a faulty relay mounted on the relay panel, which is a safety critical system.

Replacing the relay would be expensive but to replace the whole panel a lot simpler. It will make fault diagnosis easier and simplify the replacement process. A test set – itself made from parts salvaged from scrapped aircraft – to test all functions within the panel has been designed along with detailed written test procedures.

Harvesting disposals will save money and may well see the Sea King through to the end of its working life without the need for new parts.

# Courageous work earns well-deserved honour

VETERAN SUBMARINER Michael Pittkeathly has been honoured by the Queen for his role in breathing new life into a retired Royal Naval submarine.

The former Royal Navy warrant officer will receive the MBE for services to the former Cold War submarine *Courageous* in Plymouth.

*Courageous* is one of the few nuclear-powered submarines in the world open to the public. It is berthed in Devonport, and attracting hundreds of visitors a month.

PittK, as he is known, said: "I was proud to serve in submarines and in particular in *Courageous* for four years as a leading hand learning my trade during the Cold War.

"When *Courageous* first opened to the public it was in a sad state as an exhibit. So some members of the local Submarine Association volunteered to renovate the inside as only former submariners could.

"We knew what it should look like as a working submarine and how to adapt it to make it as interesting to visitors as possible."

The aim was to demystify submarines and in particular their nuclear reactor, which often arouses suspicion and fear.

He added: "Visitors' comments are always of amazement and they go home with increased respect for submariners and for the sophisticated workings of a submarine."

The Naval Heritage Centre and *Courageous* submarine is accessed via Granby Way in Devonport. Admission is free, although donations are welcome.



## Sub crew follows DE&S award

THE FIRST test firing of an unarmed Trident missile in three years – the subject of a Chief of Defence Materiel commendation – has earned the submarine which took part a Royal Navy award.

Launch from Faslane submarine *HMS Vigilant* off the coast of Florida last October earned submariners the Royal Navy's SSBN Efficiency Trophy.

The UK Demonstration and Shakedown planning team earned its CDM commendation earlier this year.

# DE&S gets on its bike!

'Olympic legacy' rubs off on staff

## Andy checks in at Land's End



Andy at Loch Ness, right, and Land's End, above



**83 hours in the saddle and 54,000 calories burned!**

KEEN CYCLIST Andy Elliott has pedalled his way through 23 British counties to raise money for Help For Heroes.

Andy Elliott, a CSC contractor with DE&S' Defence Information Services team, completed the 982-mile Deloitte Ride Across Britain event which saw more than 600 ride their way south from John O'Groats to Land's End over nine days in June.

"It was an epic ride and I met some great

people along the route – riders and support crew alike," he said.

"Arriving at Land's End was a massive achievement made all the easier by the support team and the support of my family and friends, for which I will be forever thankful.

"The most memorable moments were cycling back into England across the old Severn Bridge and cycling past my house in

Okehampton in the knowledge there was only 100 miles to go!"

Andy's ride, at an average speed of 13 miles an hour, saw him climb more than 51,000 feet, spend more than 83 hours in the saddle with around 373,000 pedal revolutions and burn 54,000 calories. He raised more than £1,500 in aid of Help for Heroes and will be heading for Cycle Oregon next month, a mere 500 miles in seven days.



Above: Cdre Andy Lison and John Taylor get in training for their duathlon challenge next month

## And after the cycling, what next? A half marathon of course!

A TEAM in the Helicopters Operating Centre will join aviation professionals from the MOD and industry attempting a 70-mile cycle ride followed by the leg-stretching New Forest half marathon.

Commodore Andy Lison, Head of Hels 1, is leading the challenge. "Aviation CARE (Cycle and Run Event)

is a natural progression from the 200-mile cycle that the team completed last year, and the Bristol Half Marathon the year before which were huge fun," he said.

"The team has already raised over £8,000 for two children's charities in two years and aims to break through the £10,000 barrier this year.

"We have formed a team of amateur athletes representing DE&S, Navy Command, Lockheed Martin, AgustaWestland and Selex ES. The primary aims are to get fitter, have fun and raise a few pounds for the Brainwave charity that cares for children suffering with brain-related illness and injury."

The event will take place on 21st and 22nd September. The team has its own webpage at [www.justgiving/Aviation-CARE](http://www.justgiving/Aviation-CARE)

**THE BRISTOL DESpots** – part of a mammoth bike ride to central London in June – went on their 'last charge' from Bristol to Shrivenham to deliver funds in person.

Almost 50 cyclists raised nearly £15,500 for Help For Heroes and a smaller group cycled to hand over the funds to the charity's ambassador Major Pete Norton, a George Cross medal holder.

Riders who delivered the cash in person were Mike Ross, Adam Sutch, Nick Copeland, James Scott, Glen Adams, Richard Straw and John Payne.

### Cash on delivery







## Gosport's five couple up to take the title

FIVE FIRST-Year Defence Munitions Gosport apprentices have been named the Fareham College engineering competition winners 2013.

The apprentices were up against a number of major defence companies and were tasked with designing and building their own version of a special type of flexible coupling known as an Oldham coupling.

The winners are pictured, from left: Macauley Binner, James Parry, Craig Kitcher, Andrew Willoughby and Jack Bryant.

## Apprentices' charity work helps out local family

APPRENTICES AT Defence Munitions Gosport dedicated a series of charity events to help a local family affected by cystic fibrosis.

As part of their entry into the Brathay Apprentice Challenge, apprentices based their community project on supporting the Cystic Fibrosis Trust after hearing how the disease had a huge impact on the life of six-year-old Ethan.

They took part in a 40-mile cycle trek from London to Reading, hosted a raffle with prizes donated by local business, and then raised money from a series of collections on local streets.

The team has raised nearly £750 which was presented by Ethan, right, to the charity's regional fundraising manager Carol Hunt.



### DSRA LOTTERY WINNERS MAY

**£10,000:** Jason Delagarde (Whitehall). **£5,000:** Elizabeth Adams (Kentigern House). **£2,000:** Angela Rigby (Whitehall). **£1,000:** Steven Todd (Abbey Wood). **£500:** Norman Gunning (Abbey Wood). **£300:** Kelly Davis (Abbey Wood), Caroline Gleeson (Woolwich), Shirley House (Devonport), Amanda Love (Larkhill). **£200:** Robert Magill (Falklands), Paul Gibbs (Boscombe Down), Susan Pinion (Abbey Wood), Jonathan Ross (Whittington), Katie Falk (SPVA), Christopher Nelson (Paderborn), Stephen Shoesmith (Abbey Wood), Max Murray-Brooks (dstl), Sandra Stringfellow (Larkhill), David Luscombe (SPVA), Errol McCammon (RAF Alconbury). **£100:** Sharon Jordon (Warminster), Jane James (RAF St Mawgan), Stephen Goodge (BAE), Kimberley Bullock (Ballykinler), Suzanne Edwards (High Wycombe), Howard Smith (HMS Sultan), Rhys Jones (Abbey Wood), Karen Downey (Liverpool), Robert Dean (HMS Collingwood), Tony Ruff (DGC Feltham), Sarah Maw (Abbey Wood), Glynn Baldwin (Corsham), Noel Dunne (Devonport), Allen Reid (Belfast), Andrew Parham (Washington).

# DINs - released this month

Defence Instructions and Notices (DINs) are defence-wide instructions, guidance and notices for military and civilian staff, containing up-to-the-minute information to help people carry out their duties. Some of the latest issued on Defence Equipment and Support are:

**2013DIN04-115:** The Sea King helicopter fleet is due out of service on 31st March 2016. This DIN details information to ensure the fleet and associated equipment drawdown and disposal is executed in a safe, timely and cost-effective manner and compliant with legislative and MOD requirements.

**2013DIN04-113:** The Disposal Services Authority commercial team has completed an interim contract for disposal of office and domestic furniture. It will run for six months with possible one-month extensions to enable the team to work on a more permanent contract. The interim contract is with Azcom and took effect in May.

**2013DIN04-104:** This DIN announces changes to the framework contracts for supply to libraries, branches, units and establishments in the MOD of various categories of commercial publication, ie those purchased from a commercial bookseller or publisher.

**2013DIN04-098:** Formations and units are advised that, as a result of recent QinetiQ trials involving movement of vehicles in ISO containers, there are amendments to management and use of ISO containers within the MOD

Further information and more details on the latest DINs see:

<http://defenceintranet.diif.r.mil.uk/Reference/DINsJSPs/Pages/DINsindex2013.aspx>

The background image shows a desert landscape at sunset or sunrise. In the foreground, two soldiers in camouflage uniforms are looking at a device together. In the background, another soldier stands with their back to the camera, looking out over the horizon. To the right, a large satellite dish is visible. The sky is filled with dark, dramatic clouds, and a bright light source (the sun) is on the left, creating a strong glow and long shadows. Two orange arrows originate from the text: one points from 'up there' to a small satellite in the sky, and the other points from 'down here' to the soldiers on the ground.

We ensure global reach  
from **up there**

to ensure smooth passage  
**down here**

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