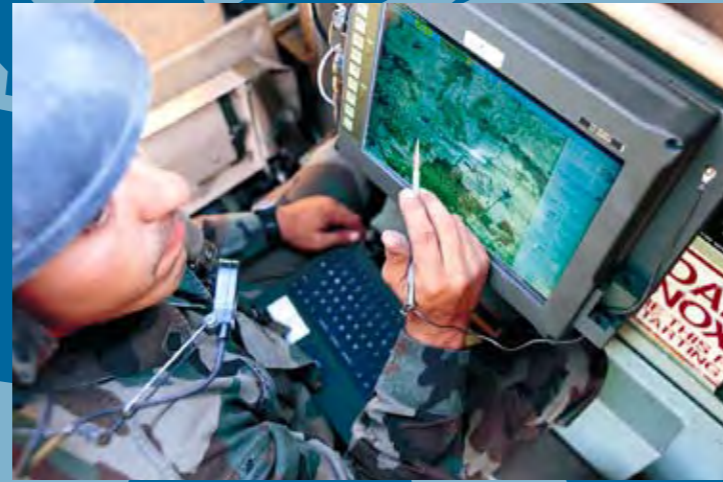


International Newsletter

Summer 2009



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Published for Northrop Grumman employees.

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Welcome

Welcome to the fourth issue of the Northrop Grumman International Newsletter for employees, aimed at keeping you up-to-date with business development, programme and people news from across the sectors in our international markets.

In this edition we focus particularly on our international trade shows in Europe, the Middle East and Asia.

In the “Meet the Team” pages, we profile some of those based at our key locations in Europe, the Middle East and Australia.

Also in this newsletter we have included contact information for each of our major international offices as well as details of forthcoming international exhibitions, trade shows and conferences in which the company is participating.

We hope that you will take the time to read this newsletter and let us know your feedback.

Please provide newsletter story ideas for future issues to ken.beedle@euro.ngc.com

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Meet the team



Sir Nigel Essenhigh

Non-executive chairman of Northrop Grumman UK



Paul Davison

Managing director of Northrop Grumman Information Systems Europe

In each issue we profile members of Northrop Grumman's management and business development teams based around the world to help you get to know more about them. In this issue we focus particularly on key locations in Europe, the Middle East and Australia.

Just click on any member for more information



Diego Portiele

Vice president Americas Northrop Grumman Electronic systems International



Giovanni Morelli

Director of Business Development Northrop Grumman Italia



Norbert Sandner

Director of Marketing and Sales Northrop Grumman LITEF



Jim Bancroft

Vice-president & country manager Australia and New Zealand Northrop Grumman Electronic Systems International



Donald E. Wesner

Vice-president Southern / Eastern Europe and Israel Northrop Grumman Electronic Systems International



Ahmed I. Selim

Regional vice-president, Middle East and Africa Northrop Grumman Electronic Systems International

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Meet the team

Sir Nigel Essenhigh, Non-executive chairman, Northrop Grumman UK, based in London, UK

Sir Nigel Essenhigh was appointed non-executive chairman of Northrop Grumman UK early in 2009. He has held a post as a senior military advisor to Northrop Grumman for five years.

Prior to his association with Northrop Grumman, he served for 40-years in the Royal Navy in a varied career of which a large part was spent at sea in surface ships ranging from patrol boat to aircraft carrier. He commanded the Type 42 destroyers HMS NOTTINGHAM and EXETER. He saw active service in the Far East and Middle East and, in HMS EXETER as Captain of the 5th Destroyer Squadron he was involved on active duty in Operations DESERT SHIELD and DESERT STORM during the first Gulf War.

Ashore he completed tours in the Ministry of Defence, mostly in the Plans and Programmes area. He served for two years as Hydrographer of the Navy and chief executive of the UK Hydrographic Office. Subsequently, as Assistant Chief of Defence Staff (Programmes), he was intimately involved in the 1997 Strategic Defence Review.

Latterly he served as Commander-in-Chief Fleet where he also held the dual NATO appointments as Commander-in-Chief Eastern Atlantic Area and Commander Allied Naval Forces North West Europe. From there he assumed the role of professional head of the Royal Navy when he took over as First Sea Lord and Chief of Naval Staff in 2001.

He is a Deputy Lieutenant of the County of Devon.



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Paul Davison, Managing Director, Northrop Grumman Information Systems Europe, based in Fareham, UK

Paul Davison is managing director of Northrop Grumman Information Systems Europe. In this position he is responsible for overseeing the sector's U.K. and European business activities, and working with sector and division leadership to expand the company's international footprint.

His career with Northrop Grumman and its heritage companies spans more than 35-years during which he served in the US, Europe, the Middle East, Far East and North Africa. He joined Westinghouse in 1973 where he worked in various engineering and executive management positions in programme management, systems design and engineering.

He was plant director of the Electro-Optical Sensors and Systems operation in Orlando, Fla and director of combat vehicle sensors for the Land Combat Systems segment leading Northrop Grumman's participation in pursuing the European UAV Sensor and the Ground Future Compatibility System. He played a leading role in the Northrop Grumman homeland security IPT. Prior to his relocation to the UK he served with the sector's C3IS operating unit in Reston, Va., as the director of international business development.

In 2003, he was appointed managing director of Northrop Grumman's European operations for the Information Systems sector including Park Air Systems in the UK and Norway, and Remotec, businesses with sales reaching \$200 million in 2008. He currently serves as the Chairman of the Board for Information Systems Europe, Park Air Systems UK, Park Air Systems Norway and Remotec UK.



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Diego Portieles, Vice President Americas Northrop Grumman Electronic Systems International

As vice president for the Americas, Diego Portieles is responsible for supporting all of Electronic Systems' sector programmes in Canada and throughout Latin America. Previously he served as Electronic Systems' offset manager assisting all divisions with their international offset obligations.

Prior to joining Northrop Grumman, Diego was the president of IDI Inc., a highly-niched consulting company specializing in international business. Before his tenure at IDI Inc., Diego served as the marketing director of the Maryland Office of International Trade, a unit of the Maryland State Government. Diego came to the State of Maryland from Fedders Corporation where he served as the international marketing manager for Fedders' Compressor Division. He started his career with General Electric Trading Company, the primary international sales unit for General Electric Company at the time and as a member of GE's foreign executive service team, he was stationed overseas in many of GE's international offices throughout the world.

Diego graduated from Yale University.

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Giovanni Morelli, Director Business Development, Northrop Grumman Italia, based in Rome, Italy

Giovanni Morelli has been director of Business Development at Northrop Grumman Italia since June 2006. In this role he is responsible for all marketing and business development activities and coordinates the company strategy development.

In July 2008 he was also appointed Electronic Systems sector lead executive and country manager for Italy.

Prior to joining Northrop Grumman Italia, Giovanni spent three years as head of Sales Western Europe for Alenia Aeronautica (Italy) where he was coordinating capture managers in military cargo and special missions aircraft. Before that he was international partnerships executive at Eurofighter International (UK) where he was responsible for setting and coordinating offset activities. He started his career at EADS Military Aircraft (Germany) as Business Development manager.

Giovanni graduated in Marketing and Export Management at the European Business School in Munich, Germany.

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Meet the team

Norbert Sandner, Director Marketing and Sales, Northrop Grumman LITEF, based in Freiburg, Germany

Norbert Sandner has been the director of Marketing and Sales for LITEF, leading a team of marketing and sales professionals for all LITEF products, since 2004.

Norbert Sandner has spent 30-years in the defence and aerospace industry, in various positions in engineering, program management and business development.

Previous positions at LITEF include director of Airborne Navigation Product Group, and various positions in marketing and engineering, including special electronic warfare projects. He has also led the software development group for inertial systems and introduced the Do-178 standard in 1986 to the company. Before joining LITEF, Norbert worked for MBB, Germany (now EADS) as system analyst in the Tornado and Eurofighter programme.

Norbert graduated with a diploma and a PhD in Physics from Freiburg University and completed executive management programmes in General Management and Leadership at the Harvard Business School and in Finance at the Wharton School.

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Meet the team

Jim Bancroft, Vice President & Country Manager - Australia and New Zealand, Northrop Grumman Electronic Systems International, based in Canberra, Australia

Jim Bancroft is vice-president & Country Manager Australia and New Zealand for Northrop Grumman Electronic Systems International. He resides in Canberra, Australia, where he facilitates the sector's business development interests and international growth strategy in Australia and New Zealand.

He joined Northrop Grumman in 2008 and has worked in the commercial sector for the last five years. Prior to this he had an extensive military career as an infantry officer. He was enterprise account manager for Hewlett Packard's national defence account and business development manager for Saab Systems in Australia, the prime contractor for the Australian Army's Battlefield Command Support System and Ground Based Air Defence capability.

His military career included a wide range of command, staff and instructional postings. He commanded a United Nations brigade during operations in East Timor in 2003 and he was Commandant of the Australian Command and Staff College responsible for the education of the Australian Army's future leaders. He commanded a motorized Battalion and was director of the Future Land Warfare branch at Army HQ.

He has a master's degree in Public and International Law from Melbourne University and a bachelor of arts degree from NSW University. He is a graduate of the Royal Military College, Duntroon, the UK Staff College at Camberley and the UK School of Military Science at Shrivenham. He is also a graduate of the Australian Company Director's Course.



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Donald E. Wesner, Vice-President Southern / Eastern Europe and Israel, Northrop Grumman Electronic Systems International, based in Brussels, Belgium

Don Wesner currently serves as the business development director and vice-president of Northrop Grumman Electronic Systems International for Southern / Eastern Europe and Israel. His region is part of the Euro-Americas region which is Northrop Grumman's largest international sales region.

Since 1995 he has served in several capacities of increasing responsibilities in the international business development organization. His experience has included all of Latin America, the Caribbean, Canada and Sub-Saharan Africa.

From 1975 to 1995 he worked in the Westinghouse International Manufacturing organization initially establishing a corporate manufacturing and information technology operation in Mexico and eventually taking responsibility for all Westinghouse international operations in Mexico, Dominican Republic and Puerto Rico.

He received a bachelor's degree in Engineering from Lehigh University and a master's degree in Science in Administration from George Washington University. He has also participated in the UCLA Marketing Business Forum and other international business and marketing forums including Chamber of Commerce of Latin America, the Business Council for International Understanding and the Council of the Americas. He serves on the board of directors of Hands Across the Americas, a non-profit charitable organization assisting economically disadvantaged people with medical and other aid in the Americas.



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Ahmed I. Selim, Regional Vice-President, Middle East and Africa Northrop Grumman Electronic Systems International, based in Abu Dhabi, UAE

As regional vice-president, Middle East and Africa, Northrop Grumman Electronic Systems International (NGESI), Ahmed Selim has executive business development responsibility for the overall marketing of Northrop Grumman Electronic Systems products for 70 countries within the region. He directs the efforts of a team of regional country managers and consultants that undertake marketing research, analysis and strategy and implements campaigns.

He joined Northrop Grumman in 1997 and has broad-based management experience across a variety of disciplines, including project engineering, programme management and business development. In 1999, he was appointed programme manager with the Aerospace Systems sector; and in 2001 he was named Business Development manager in the ES Navigations Systems Division. He successfully managed a \$200M U.S. Navy cruiser upgrade programme and Australian helicopter software development programme for the Navigation Systems Division. In 2007, he was appointed regional vice-president, International Field Marketing – Middle East and Africa Region, responsible for managing all NGESI activities across the region with special emphasis on critical growth opportunities in both North Africa and the Arabian Gulf States, and most recently held the position of NGESI country manager for Jordan, United Arab Emirates, Pakistan, Oman and Iraq.

Prior to joining Northrop Grumman he served in the United States Marine Corps for 12-years. He received a bachelor's degree from the University of California Los Angeles and has completed advanced coursework with the USMC. He is fluent in Arabic.



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Trade Shows

Northrop Grumman Demonstrates Secure Broadband Wireless and Public Safety Capabilities at BAPCO 2009 Conference and Exhibition, London

Northrop Grumman highlighted its integrated secure broadband wireless and public safety national security capabilities at the British Association of Public Safety Communications Officers (BAPCO) annual conference and exhibition held at the Business Design Centre, Islington, London.

Tom Afferton, director of Wireless Engineering for Northrop Grumman's Information Systems sector delivered a conference paper at BAPCO entitled "Resilient Data Applications for Public Safety: an Update from the New York City Wireless Programme and the Sussex Police Project."

The exhibit demonstrated the benefits of delivering secure mobile broadband data to emergency services and front line policing based on the New York City public safety wireless broadband network and the successful UK trial of broadband mobile data capability held in collaboration with Sussex Police and the National Policing Improvement Agency (NPIA).

Live streaming video from remote and local cameras was transmitted over a wireless high speed data path to mobile devices including tablet PCs. The demonstration included Northrop Grumman's Caliber unmanned ground vehicle with a manipulator-arm mounted camera, and the integrated airport security solution Airtight used with a TouchTable.

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Pictured at BAPCO, from left, Sir Nigel Essenhigh, chairman, Northrop Grumman UK, Tom Afferton, director, Wireless Engineering; Richard Mears, director, Business Development-Defence Systems; and Simon Peace, systems engineer, Northrop Grumman Information Systems

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Trade Shows

Northrop Grumman Park Air Systems Highlights Air Traffic Control Capabilities at ATC Global 2009, Amsterdam

Northrop Grumman's air traffic management subsidiary, Park Air Systems, showcased its air traffic control systems, products and capabilities at the ATC Global 2009 exhibition, held at the RAI exhibition centre, Amsterdam.

"ATC Global is an important opportunity to demonstrate the range of our capabilities from integrated air traffic management systems to airport security solutions," said Paul Davison, managing director for Northrop Grumman's Information Systems sector in Europe. "We are represented here by both Charles Houseago, managing director for Park Air Systems in the UK and Eldar Hauge, managing director for Park Air Systems in Norway. Together we are committed to delivering the most safe, reliable and innovative ATC solutions and to working in partnership with our customers to meet their changing and diverse needs."

The company also demonstrated its new airport security solution, Airtight, which enables existing security infrastructure and sensor data at airports to be integrated to create an adaptable and improved security operating environment.

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Northrop Grumman Information Systems highlighted its air traffic management capability at ATC Global 2009 in Amsterdam

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Trade Shows

Northrop Grumman Showcases Key Capabilities at Australian International Air Show 2009, Avalon

Northrop Grumman highlighted its key capabilities and programmes at the Australian International Air Show, at Avalon near Geelong in Victoria, including unmanned aerial vehicles, airborne early warning and control systems, fire control radars and infrared countermeasures.

“Northrop Grumman is committed to our Australian and South East Asian customer base and we believe that this air show is an ideal opportunity to showcase our considerable capabilities,” said John Brooks, president of Northrop Grumman International Inc. and vice president of business development for Northrop Grumman’s Aerospace Systems sector. “Our capabilities across the company are well matched to meeting the region’s growing defence and aerospace requirements.”

Among the exhibits featured in the Northrop Grumman pavilion were the company’s multi-role electronically scanned array (MESA) radar capabilities, which are currently being integrated into Australia’s Wedgetail AEW&C aircraft. The MQ-8B Fire Scout vertical take-off and landing unmanned aerial vehicle (VTUAV) and RQ-4 Global Hawk high altitude, long endurance unmanned system were also featured.

Northrop Grumman has well-established relationships with Australia and other countries in the region, supporting both defence and civil programmes for more than 20 years. It is a key sub-contractor for the Wedgetail AEW&C, F-35 Joint Strike Fighter and the FA/18 Super Hornet.

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The RQ-4 Global Hawk high altitude, long endurance unmanned system was featured at the Australia Air Show. Northrop Grumman has well-established relationships with Australia and other countries in the region, supporting both defence and civil programmes for more than 20 years.

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Trade Shows

Northrop Grumman Showcases Advanced Homeland Defence Capabilities at Aero India 2009, Bangalore

Northrop Grumman highlighted key capabilities in airborne early warning and control systems for maritime reconnaissance, fire control radars and unmanned aerial vehicles at the Aero India 2009 exhibition and air show held at Air Force Station Yelahanka, Bengaluru, India.

“India represents an important market in Asia for Northrop Grumman’s industry-leading technologies and capabilities and we recognise India’s changing needs particularly in homeland defence,” said John Brooks, president Northrop Grumman International Inc. and vice-president business development for Northrop Grumman Aerospace Systems sector. “Our capabilities across the company are well matched to meeting India’s growing aerospace, defence and national security requirements.”

Among the exhibits on display were Northrop Grumman’s world leading capabilities in airborne early warning and control featuring the E-2 Hawkeye and 737 airborne early warning and control (AEW&C), multi-role electronically scanned array (MESA) radar. Also on display was a model of Northrop Grumman’s AN/APG-80 active electronically scanned array (AESA) radar for the F-16IN Super Viper multi-role fighter aircraft as well as Fire Scout vertical take-off and landing unmanned aerial vehicle. Northrop Grumman’s German subsidiary, Northrop Grumman LITEF, also exhibited at Aero India displaying its navigation systems for land vehicles, sensors for weapon stabilisation, inertial guidance systems for missiles and AHRS / navigation systems for fixed-wing and rotary-wing aircraft.

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Pictured top: Vice Admiral Nirmal Verma, Flag Officer Commander-in-Chief Eastern Naval Command, Indian Navy visits the Northrop Grumman exhibit at Aero India. Pictured are Gyanendra Sharma, managing director India for Northrop Grumman Electronic Systems, centre, and KC Brown, Northrop Grumman Aerospace Systems.

Inset: John Brooks, vice-president business development for Northrop Grumman Aerospace Systems sector left and KC Brown, briefing on Fire Scout at Aero India.

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Trade Shows

Northrop Grumman Showcases Defence and Homeland Security Capabilities at IDEX 2009, Abu Dhabi

Northrop Grumman displayed its defence and security infrastructure system solutions including airborne early warning and control systems, unmanned aerial vehicles, fire control radars and electronic warfare systems at the International Defence Exhibition & Conference (IDEX) in Abu Dhabi, United Arab Emirates (UAE).

“We have a long history of close business relationships across the region and participating in IDEX allows us to continue our dialogue not just with our customers, but also other key stakeholders,” said Brian Morra, vice president business development and strategic planning for Northrop Grumman’s Electronic Systems sector. “Our objective is to continue to work closely with these customers to provide long-term capability solutions and help enhance defence and national security across the region.”

Highlighted were Northrop Grumman’s capabilities in airborne early warning and control including the E-2 Hawkeye and 737 airborne early warning and control (AEW&C), multi-role electronically scanned array (MESA) surveillance radar. Also on display was the AN/APG-68(V)9 mechanically scanned array radar for the F-16 multi-role fighter aircraft.

Northrop Grumman’s German subsidiary, Northrop Grumman LITEF also exhibited displaying its navigation systems for land vehicles, sensors for weapon stabilisation, inertial guidance systems for missiles and AHRS / navigation systems for fixed-wing and rotary-wing aircraft.

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Tawazun Holding signed a Memorandum of Understanding (MoU) with Northrop Grumman to enter into an alliance for collaboration on advanced technology defence programmes. The MoU was signed at IDEX by H.E. Saif Mohamed Al Hajeri, chief executive officer of the Offset Program Bureau and Tawazun Holding, and John C. Johnson, sector vice president & general manager of Northrop Grumman’s Aerospace Systems Division.

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Trade Shows

Northrop Grumman Showcases Industry Leading Mail Processing Technologies at Post Expo, London

Northrop Grumman's postal automation subsidiary, Solystic, displayed its industry-leading mail processing technologies at Post Expo, the international postal technology exhibition and conference held at ExCel in London. Solystic was also a major sponsor of Post Expo.

Solystic participated in the conference with Katty Pascal, programme manager, and Frédéric Badier, programme management director, joining a speaker from Royal Mail for a presentation on flat mail processing in the UK.

In May 2007, Solystic was awarded a contract with Royal Mail (UK) for the supply and installation of TOP2000 high-performance sorting machines for oversized mail. Each of these state-of-the-art machines is capable of automatically sorting 38,000 flat mail pieces an hour.

September 08 - [Click here for full story](#)

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Scale models of Solystic's TOP2000 flat mail processing machine, iLSM letter sorting machines and MARS sequencing machines were on display at Post Expo. Pierre Igou, general manager of Solystic based in Paris is pictured second from the left.

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News - Corporate

Northrop Grumman Appoints Sir Nigel Essenhigh as Non-Executive Chairman for the UK

Northrop Grumman announced the appointment of Sir Nigel Essenhigh as non-executive chairman for Northrop Grumman in the UK. He joined the board of the company's UK holding company NGC UK as a director early in 2009.

In this new position, Sir Nigel is providing strategic guidance to help support the company's current programmes, encourage growth and assist with the strategy to develop new business opportunities for Northrop Grumman in the UK.

"I am delighted that Sir Nigel is joining Northrop Grumman UK in this new role of non-executive chairman. He is highly respected in the defence industry and brings a wealth of experience and knowledge which will be invaluable to the company," said Robert W. Helm, corporate vice president of Government Relations for Northrop Grumman. "We have been extremely fortunate to secure his commitment of time and effort and we look forward to the contributions he will make to enhancing Northrop Grumman's presence in the UK."

Sir Nigel's career spans 39 years in the Royal Navy culminating in serving as First Sea Lord and Chief of the Naval Staff prior to his retirement in 2002. In the subsequent six years he has held a variety of commercial and consultative appointments, including some five years as a senior consultant to Northrop Grumman. He currently serves as a non-executive director of the Babcock International Group.

December 08 - [Click here for full story](#)

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As non-executive chairman of Northrop Grumman in the UK, Sir Nigel Essenhigh is providing strategic guidance to help support the company's current programmes, encourage growth and assist with the strategy to develop new business opportunities in the UK

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News - Corporate

Northrop Grumman Improves Ranking in UK MoD's Supplier Performance Review

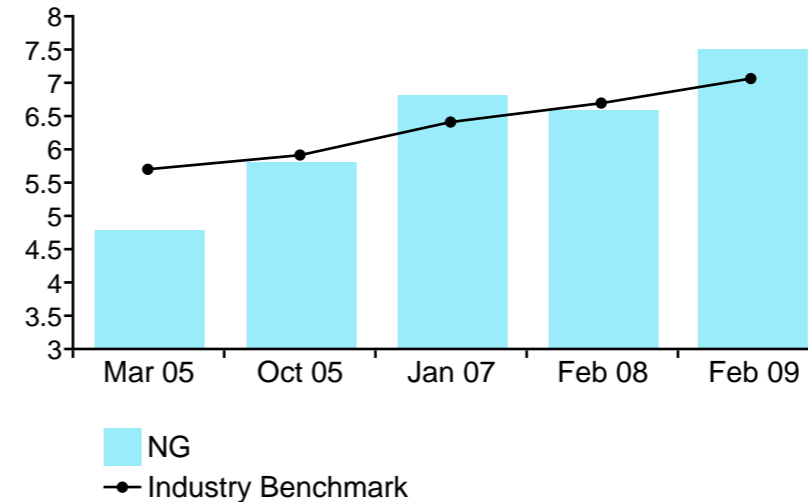
Northrop Grumman has improved significantly its ranking among 30 key suppliers to the UK Ministry of Defence (MoD) increasing its performance score by nearly 15% in the MoD's 2009 annual performance review.

Under the Key Supplier Management (KSM) process aimed at ensuring the timely provision of the best possible equipment for the Armed Forces, the UK MoD carries out a survey every year of its perceptions of Northrop Grumman's performance on UK projects and also how Northrop Grumman perceives the MoD. The relationship is assessed against a number of core categories on a scale of 0 to 10 with a score of 10 indicating "excellence". This year the survey reviewed projects in the Air Support, ISTAR and Maritime domains. Northrop Grumman's average score this year was 7.5 placing it in the second quartile of the key suppliers assessed

"Northrop Grumman makes an important contribution to the MoD's operational effectiveness" said George Gardiner, head of ISTAR Programme Delivery in the MoD's Defence Equipment & Support organisation.

Northrop Grumman in the UK has a variety of capabilities that are considered important to the MoD. These include Sentry E-3D AWACS Whole Life Support, Directed Infrared Countermeasures (DIRCM) and Explosive Ordnance Disposal (EOD). The performance review stated that the MoD perceives the company to be strong and improving at, building and fostering relationships, competent commercial management and embracing innovation.

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Northrop Grumman has significantly increased its performance score over the Key Supplier average in the 2009 review.

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News - Aerospace Systems

Turkish F-35 Supplier to Northrop Grumman Delivers First Structural Assemblies

Turkish Aerospace Industries (TAI), a major international supplier to Northrop Grumman on the F-35 Lightning II aircraft programme, has produced and delivered its first structural assemblies for the jet. TAI, Ankara, Turkey, opened a new facility dedicated to producing composite subassemblies for the new international, multi-role fighter in 2008. The metallic assemblies represent the next major step forward in TAI's evolving role as a second source supplier of complete F-35 centre fuselages. The assemblies from TAI will be used in centre fuselages for F-35 conventional takeoff and landing (CTOL) variants. Northrop Grumman, a principal member of the Lockheed Martin-led F-35 industry team, is currently assembling those CTOL centre fuselages in Palmdale, Calif. as part of the second phase of F-35 low rate initial production.

"We are very encouraged by TAI's steady progress in maturing the production and assembly processes that will be required to eventually produce 400 centre fuselages for the programme," said Mark Tucker, vice president of tactical systems and F-35 programme manager for Northrop Grumman's Aerospace Systems sector.

Northrop Grumman designed and produces the aircraft's centre fuselage, radar and other key avionics including electro-optical and communications subsystems; develops mission systems and mission-planning software; leads the team's development of pilot and maintenance training system courseware; and manages the team's use, support and maintenance of low-observable technologies.

November 08 - [Click here for full story](#)

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As a member of the F-35 global industry team, Northrop Grumman is central to the development, production and support of the F-35 Lightning II and is committed to grow and nurture international industrial participation.

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News - Aerospace Systems

Full-Scale Model of NASA's James Webb Space Telescope on Display at Deutsches Museum, Munich, Germany

Media representatives were invited to view up close the full-scale, tennis court-sized model of the James Webb Space Telescope on its first visit to Germany, where it was displayed in the courtyard of the Deutsches Museum.

NASA, in partnership with European Space Agency, Canadian Space Agency and a Northrop Grumman-led team, is building the Webb Telescope, slated for launch in 2013. The model weighs 5.4 metric tons (12,000 pounds) and is approximately 24 metres (80 feet) long, 13 metres (44 feet) wide and 12 meters (40 feet) tall.

October 08 - [Click here for full story](#)

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Northrop Grumman is NASA Goddard Space Flight Center's prime contractor for the James Webb Telescope and is leading an industrial team in the design and development of this next-generation space observatory using cutting-edge technology.

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News - Aerospace Systems

Northrop Grumman Speaks on Global Change at Space Industry Conference in the UK

Northrop Grumman was among leading space industry speakers at the International Astronautical Congress being held in Glasgow, UK.

Northrop Grumman representatives delivered three conference papers on a theme of global change, and the company exhibited its key space technology capabilities including the National Polar Orbiting Environmental Satellite System (NPOESS) as a fundamental contributor to global weather, climate and hazard monitoring.

The International Astronautical Congress is a major international space conference, which provides a focus for the space industry worldwide through the presentation of the latest ideas and current activities across a diverse range of space-related topics. It was attended by more than 2,000 experts, including astronauts, space agencies, scientists, engineers and technology specialists.

“A strategic policy framework and mechanism for government and private sector engagement needs to be established to enable system-of-systems solutions for global change monitoring to evolve further” said Ron Birk, director of mission integration, civil space for business development for Northrop Grumman Space Technology. “This conference provides an important platform to broaden industry understanding to help ensure this can be achieved.”

September 08 - [Click here for full story](#)

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Northrop Grumman is the prime contractor for NPOESS the US' next generation low Earth-orbiting weather and climate monitoring system and will provide timely and essential data to civilian and military users through 2025.

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News - Information Systems

Northrop Grumman Park Air Systems Wins Turnkey Contract to Supply Integrated ATC Communications System to Brazil

Northrop Grumman's Europe-based air traffic control systems subsidiary, Park Air Systems, has been awarded a contract by the Brazilian Airspace Control System Implementation Commission (CISCEA) to supply and install complete UHF/VHF T6 extended range communication stations at multiple sites across Southern Brazil.

The contract valued at \$19M was awarded following an international competitive tender process.

Northrop Grumman Park Air Systems will provide a turnkey solution that will integrate the company's PAE T6 UHF/VHF range of equipment, manufactured in the UK, with locally supplied equipment including equipment shelters, standby power, masts and antennas into a complete extended range communication system.

"This win is an outstanding example of the strength of our technology leadership and capabilities in this highly competitive market to provide complex air traffic management communication systems for demanding environments," said Charles Houseago, managing director of Northrop Grumman Park Air Systems.

The communication stations will be installed at more than 20 sites across Southern Brazil in the second Integrated Centre for Air Defence and Air Traffic Control (CINDACTA II) region and will integrate the new stations into the customers' existing infrastructure.

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At the completion of this contract, Northrop Grumman Park Air Systems will have equipped more than 75 sites delivering communications services across half of Brazil's airspace.

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News - Information Systems

Northrop Grumman Park Air Systems Wins International Contracts for Air Traffic Management Systems

Northrop Grumman Park Air Systems has recently been awarded a number of international contracts.

The company has been selected by prime contractor Aeronav Group to supply an extended-range VHF communications system to the Trinidad and Tobago Civil Aviation Authority (CAA). The system will deliver ground-to-air voice communications throughout the country's airspace, including the surrounding oceanic area. [Click here for full story](#)

Northrop Grumman Park Air Systems, is supplying its NOVA 9000 Radar Processing and Flight Planning System, with fully integrated electronic flight strips, to the new air traffic control (ATC) tower at Jersey International Airport. [Click here for the full story](#)

Northrop Grumman Park Air Systems is providing integrated ground-air radio systems with VHF and UHF frequencies to the Polish Air Navigation Services. [Click here for the full story](#)

Northrop Grumman Park Air Systems is supplying the first of its new generation IP-enabled multimode digital radios (MDR) to data service provider ARINC, Annapolis, Md. for installation within its global network. [Click here for the full story](#)

Northrop Grumman Park Air Systems is supplying NAV CANADA, Canada's civil air navigation services provider, with VHF radios as part of an extensive \$50 million replacement programme for ground-to-air VHF radio equipment across 320 sites in Canada. [Click here for the full story](#)

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Park Air Systems provides communications, navigation and surveillance systems for airspace around the world and has an installed base covering more than 170 countries. Some 90% of these systems are exported to 80 countries every year.

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News - Information Systems

Northrop Grumman to Provide Computer-Aided Dispatch System for London Ambulance Service

Northrop Grumman has been selected to provide a new computer-aided dispatch (CAD) system for the London Ambulance Service to handle emergency calls and ambulance movements. Northrop Grumman

will design, develop and implement the new system, which will be introduced in 2010. It will improve the effectiveness of the dispatch process while allowing for future growth and expanded capabilities.

The system will be fully operational to support the London Ambulance Service during the 2012 London Olympics.

“Our CAD system will consolidate emergency response command and control actions and help the London Ambulance Service bring resources to the scenes of emergency more rapidly and efficiently,” said John Hopkins, director of UK operations for Northrop Grumman’s Information Technology sector. “This builds on our strong systems integration expertise and proven record of implementing large-scale CAD systems.”

The new CAD system will be put into operation using Northrop Grumman’s CommandPoint public safety system application to provide London Ambulance Service with a proven, flexible solution which will be fully integrated with existing systems.

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The Computer-Aided Dispatch System will enable 999 calls to be handled more efficiently and will make it easier to send the right response to patients as quickly as possible. The system will also have an improved capability for managing large-scale events or major incidents, will be more resilient, and will have greater flexibility

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News - Electronic Systems

Sperry Marine Opens New Technical Support Facility in UK

Northrop Grumman has opened its new UK technical support centre to provide service, repair and maintenance for the company's inertial navigation systems (INS) used in Royal Navy ships and submarines.

The naval gyrocompass support centre at Northrop Grumman's Sperry Marine facility in New Malden, UK, contains a full repair and calibration workshop to support NATO ship INS installed on Royal Navy surface warships and attack submarines. Sperry Marine is under contract with the U.K. Ministry of Defence (MoD) to provide ongoing in-service support for these systems.

"This new facility will significantly enhance Northrop Grumman's U.K.-based technical capabilities and marks a major milestone in our continuing programme of improving the support we provide to our MoD customers," said Sir Nigel Essenhigh, chairman of Northrop Grumman U.K. "The gyro support centre in New Malden will enable us to provide faster turnaround times and more responsive service support for these important mission-critical shipboard components."

"The new workshop will enable our U.K. employees to perform repairs and re-calibration services for the sophisticated inertial measurement units, which are at the heart of these military shipboard systems," said J. Nolasco DaCunha, vice president of Northrop Grumman Sperry Marine.

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From left to right: Nolasco DaCunha, vice-president Northrop Grumman Sperry Marine; Sir Nigel Essenhigh, chairman Northrop Grumman UK; Admiral Sir Jonathon Band, First Sea Lord; Cllr Nick Draper, Mayor of Merton; and Dhanvant Goradia, director of Sperry Marine's New Malden operation.

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News - Electronic Systems

Northrop Grumman to Supply Land Navigation Systems for Republic of Korea's New Infantry Fighting Vehicle

Northrop Grumman has been awarded a contract by Korean military systems and vehicle manufacturer Doosan DST to deliver inertial navigation units for the Republic of Korea's new K21 infantry fighting vehicle (IFV). The LLN-G1 units will be built by the company's German navigation systems subsidiary, Northrop Grumman LITEF.

The K-21 infantry fighting vehicle is regarded as perhaps the very best armored combat vehicle of its kind for the 21st century in the world.

The LLN-G1 is a hybrid land navigation system based on state-of-the-art fibre optic gyros and micro-electromechanical system (MEMS) accelerometers developed and manufactured by Northrop Grumman LITEF in Freiburg, Germany. Combining inertial sensors with an odometer and GPS data, the LLN-G1 provides accurate and uninterrupted three-dimensional position and attitude data for vehicle commanders and crews.

"Non-jammable situational awareness in combination with gyro-compassing is exactly what the commander of a modern IFV like the K21 needs to effectively carry out his mission. Normally found in high-end inertial reference systems, the gyro compassing capability enables the LLN-G1 to establish precise heading without the use of a magnetic compass," said Norbert Sandner, director of marketing and sales for Northrop Grumman LITEF. "This new contract for the series production phase of the K21 IFV is the second LLN-G1 order for the K21 vehicle, and we are pleased that our systems have again been chosen as an integral part of one of the most advanced IFVs currently available."

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The LLN-G1 inertial navigation unit will provide accurate and uninterrupted three-dimensional position and attitude data for K-21 infantry fighting vehicle commanders and crews.

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News - Electronic Systems

Northrop Grumman to Supply Navigation Systems for New Fast Patrol Boats for Trinidad and Tobago

Northrop Grumman has been selected to supply integrated bridge systems (IBS) for six fast patrol craft being built by Austal Shipyards in Australia for the government of Trinidad and Tobago. Northrop Grumman's Sperry Marine business unit will supply the equipment, which will be installed and commissioned by Electrotech Australia Pty Ltd.

The IBS will be based on Sperry Marine's new-generation VisionMaster FT™ technology. The scope of supply includes radars, electronic chart display and information system, high-speed autopilot, heading and speed sensors, echo-sounder, DGPS receiver and voyage data recorder.

"The advanced features and capabilities of our VisionMaster FT navigation technology are ideally suited for the requirements of high-speed patrol craft, and Sperry Marine is rapidly becoming the preferred IBS supplier for international navies and coast guards," said J. Nolasco DaCunha, vice president of Northrop Grumman Sperry Marine.

"VisionMaster FT represents a major advance in marine navigation technology, replacing discrete stand-alone single-task workstations with integrated multi-function consoles, greatly enhancing situational awareness for the bridge watch team," added DaCunha.

The 30-metre patrol boats for Trinidad and Tobago will have top speeds of 40 knots and a range of more than 1,000 nautical miles. They are designed to support a number of missions.

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A computer-rendered image of the 30m Trinidad & Tobago Coast Guard fast patrol craft

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News - Electronic Systems

Northrop Grumman Wins Contract to Upgrade Radar Systems for Iraqi Air Force

Northrop Grumman has been awarded a contract to upgrade weather and navigation radar systems on Iraqi Air Force C-130 cargo aircraft.

The Foreign Military Sales contract, valued at \$5.1 million (USD), was awarded to Northrop Grumman's Sperry Marine business unit by Lear Siegler Services, Inc. Sperry Marine will deliver AN/APN-242 weather and navigation radars to replace obsolete AN/APN-59 systems on the aircraft. The contract also includes funding to develop a new high-resolution flat-panel cockpit display processor for the radars. Deliveries are to be completed by July 2009.

The AN/APN-242 was developed by Northrop Grumman as a form, fit and function replacement for the company-designed and manufactured AN/APN-59 systems on C-130 and C-135 aircraft. It provides weather detection and avoidance, terrain mapping and navigation, aircraft detection, precision air drop capability and beacon/IFF interrogation capabilities. The AN/APN-242 has half the number of line-replaceable units and provides an order-of-magnitude improvement in mean-time-between-failures.

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The AN/APN-242 radar provides weather detection and avoidance, terrain mapping and navigation, aircraft detection, precision air drop capability and beacon/IFF interrogation capabilities.

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News - Electronic Systems

Canadian Destroyer Conducts First Ship Trials with Northrop Grumman Inertial Navigation and Data Distribution System

A Canadian Navy destroyer has completed the first successful sea trials with a new-generation inertial navigation system (INS) and data distribution network supplied by Northrop Grumman. The Iroquois-class destroyer, HMCS Athabaskan, is the first naval ship to go to sea with the MK49 ring-laser gyro navigator (RLGN) INS and Navigation Data Distribution System (NavDDS). The systems were developed by Northrop Grumman's Sperry Marine business unit. The Sperry Marine MK49 RLGN provides highly precise real-time 3-D position, heading, speed and attitude reference data for the ship's navigation and combat systems. The NavDDS is designed to provide a network backbone integrating INS data seamlessly with other sensors and systems throughout the ship.

"The RLGN-NavDDS combination represents a major advancement in the state-of-the art integrated navigation technology on modern warships," said J. Nolasco DaCunha, vice president of Sperry Marine. "The successful sea trials aboard HMCS Athabaskan provided a clear demonstration of the mission-enhancing capabilities of the MK49 and NavDDS systems for the Canadian Navy.

"Sperry Marine is under contract with the Canadian Navy to supply RLGN and NavDDS systems for 12 Halifax-class frigates, three Iroquois-class destroyers and four Victoria-class submarines," said DaCunha. "The recently completed ship trials are an important milestone in this programme, opening the door to rapid deployment of this breakthrough technology across the remaining Canadian Navy surface and submarine platforms."

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The destroyer, HMCS Athabaskan, is the first naval ship to go to sea with the Sperry Marine MK49 ring-laser gyro navigator (RLGN) INS and Navigation Data Distribution System (NavDDS).

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News - Electronic Systems

Northrop Grumman to Supply Fin Stabilizers for Six New Vehicle Ferries

Northrop Grumman's Sperry Marine business unit has been awarded a contract to supply fin stabilizer systems for six new roll-on/roll-off (ro-ro) vehicle ferries being built for Finnlines at the Jinling shipyard in China.

Each of the vessels will be fitted with Sperry Marine Gyrofin® stabilizers. Utilizing Sperry Marine's patented Lift Control technology, the Gyrofins are designed to provide optimum roll stabilization while minimizing cavitation.

"The Gyrofins will provide improved safety and vessel performance, minimize passenger discomfort, protect vehicles from damage and reduce fuel consumption," said J. Nolasco DaCunha, vice president of Sperry Marine. "The proven Gyrofin design, with Sperry Marine's improved digital control system, provides a robust solution that delivers a smooth ride even in the roughest seas."

The six new ice-classified ro-ro ships will have about 3,200 lane meters for vehicles, and will operate at a speed of 20 knots. They are scheduled for delivery from Jinling in 2010 and 2011.

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The Gyrofin stabilizer design with Sperry Marine's improved digital control system, provides a robust solution that delivers a smooth ride even in the roughest seas.

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News - Electronic Systems

Northrop Grumman Introduces New Widescreen Technology For Ship Navigation Systems

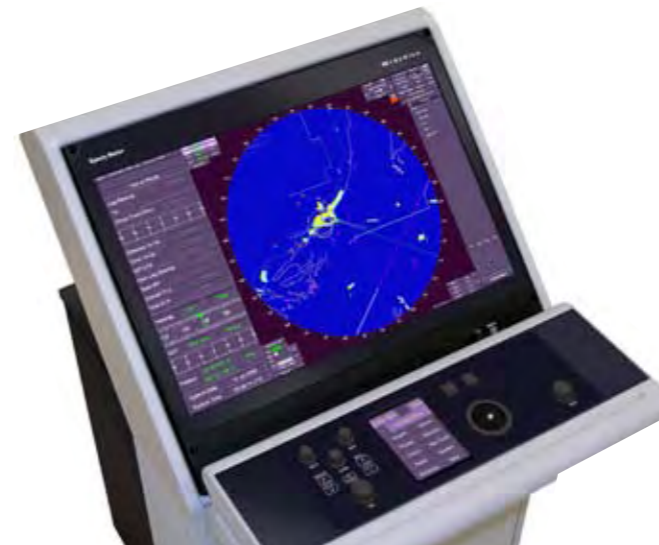
Northrop Grumman's Sperry Marine business unit unveiled at the maritime technology exhibition SMM in Hamburg, its newest enhancement to the VisionMaster FT™ range of marine navigation systems – a wide-screen high-resolution display with 25 percent more viewing area.

Sperry Marine's WideView™ display console is designed to improve situational awareness for bridge watch officers by providing additional information alongside the radar or electronic chart display and information system (ECDIS) picture. The iWindow display on the left-hand side of the display is user configurable to show split-screen and window inset views of conning information, closed-circuit TV images and other operational modes.

A unique feature being introduced for the first time in the WideView product is the iView3D display, which shows underwater topography matched to the electronic chart. This will augment the two-dimensional chart display by providing the watch officer a three-dimensional graphic picture of underwater hazards to navigation.

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Sperry Marine's WideView™ high resolution display console has 25 percent more viewing area and is designed to improve situational awareness for bridge watch officers.

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News - Electronic Systems

Northrop Grumman Announces First Sale of NAVEX Air Navigation System to Sikorsky for International Markets

Northrop Grumman has been selected by Sikorsky Aircraft to provide its NAVEX air navigation system for use on UH-60L Black Hawk utility helicopters for export.

Under the contract, which strengthens the sales of the system for international markets, Northrop Grumman's Italy-based subsidiary, Northrop Grumman Italia will supply Sikorsky Aircraft with NAVEX systems and installation kits for an initial 15 helicopters with a follow-on contract for an additional 17 helicopters. Two NAVEX systems will be supplied for each helicopter.

NAVEX is a family of attitude and heading reference systems for both fixed-wing and rotary-wing aircraft. It is available with a variety of fibre-optic gyros developed by the company in Italy and Germany that support a wide range of accuracies, allowing appropriate system configurations to be selected to match customer requirements.

"Northrop Grumman Italia specializes in building customised navigation solutions quickly to help meet customers' navigation requirements," said Giovanni Morelli, director of business development for Northrop Grumman Italia and Northrop Grumman country marketing manager for Italy. "NAVEX solutions are available to a wide range of international customers, subject to the European export control regulations."

NAVEX is in low rate initial production and it is certified to military standards.

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The NAVEX family of attitude and heading reference systems can be used for both fixed-wing and rotary-wing aircraft.

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News - Technical Services

Northrop Grumman to Upgrade Accident Data Recording System for UK's Sentry E-3D AWACS Aircraft

Northrop Grumman has been awarded a contract by the UK Ministry of Defence (MoD) to develop and install a replacement Accident Data Recording System (ADRS) for the Sentry E-3D Airborne Warning and Control System (AWACS) aircraft based at RAF Waddington. Work will be performed under Northrop Grumman's existing Sentry E-3D Whole Life Support Programme (WLSP). The contract modification for the ADRS replacement is valued at more than \$16 million over three years.

"Under the WLSP, we are building a record of success in maintaining high availability for these strategically important aircraft and this is the first of several modifications needed for continued life cycle support of the fleet," said Harry Beardsley, Northrop Grumman Technical Services programme manager for the contract. "The close partnering relationship that has been developed by our joint industry team and the MoD will ensure the successful implementation of this important upgrade."

The modification will remove the existing ADRS, which suffers from obsolescence and poor reliability, and replace it with a solid state ADRS, which meets the MoD's current and future requirements. The Joint Sentry Support Team (JSST) will also update the aircraft and training manuals and perform overall management and system engineering for the new ADRS. The ADRS includes a new aircraft data and cockpit voice recording unit, a backup cockpit voice recording unit and an emergency locator transmitter unit for each aircraft. In addition, an accident investigation kit and ground replay stations will be provided.

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Northrop Grumman delivers whole life support for the Sentry E-3D AWACS fleet and is on contract until 2025. The company acts as the design organization, providing long term UK-based technical support to the programme with some 50-engineers located at RAF Waddington.

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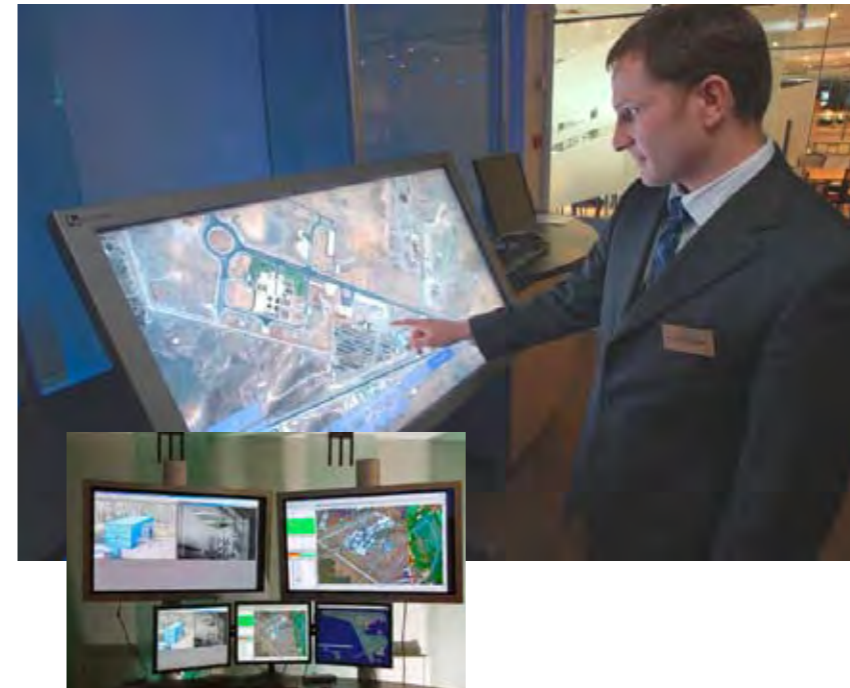
Technology

NG ISE Launches New Airport Security Solution, Airtight

Northrop Grumman ISE has recently launched its new integrated airport security solution, Airtight. Airtight uses data from existing airport sensors and infrastructure to create a common operating picture which can then be shared with the emergency services and first responders, resulting in a significantly enhanced security operating environment. The sensor fusion capabilities of Airtight include integrating not only traditional motion sensors and cameras but also the installed base of field-proven Northrop Grumman technologies such as surveillance radar and surface movement guidance and control systems (SMGCS) to offer a complete operational picture.

“Airport operations are increasingly subject to disruption and may be affected by a range of possible security threats from criminal activity to breaches of external perimeter security which can impose a substantial burden on airport resources,” said Paul Davison, managing director of Northrop Grumman’s Information Systems sector in Europe. “Our Airtight solution offers airport operators a cost efficient path to strengthening security awareness throughout restricted and controlled zones, with minimum additional burden on existing resources.”

Airtight provides a multi-layered and scalable solution that offers a range of airport security capabilities from threat analysis, detection and assessment, through to planning and directing the actions of first responders. It exploits customers’ existing security assets, including cameras, motion sensors and access control systems, whilst offering a flexible growth path for upgrades and the introduction of new technologies as and when they are required. In addition, an accident investigation kit and ground replay stations will be provided.



Airtight uses data from existing airport sensors and infrastructure to create a common operating picture which can then be shared with the emergency services and first responders.

Airtight can present data on a large Touchable screen for operators to view and respond. Touchable allows layers of data and information to be accessed in a collaborative environment.

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Northrop Grumman Remotec's Bomb Disposal Robot CUTLASS on display at the UK MoD's Unmanned Vehicles Media Briefing held as part of the UK's National Science & Engineering Week

The UK MoD's Minister for Defence Equipment & Support, Quentin Davies MP (right) and Director General of the Defence Manufacturer's Association, Rear-Admiral Rees Ward watch as CUTLASS demonstrates some of its capabilities.



Northrop Grumman UK chairman Visits IDENT1 Programme, Hendon, UK

Sir Nigel Essenhigh, Northrop Grumman UK chairman visited the IDENT 1 programme office at Colindale, Hendon. Pictured are, Paul Baker, Northrop Grumman operations manager (left) and Sir Nigel Essenhigh.

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The Chief of Corporate Services in the MoD Defence Equipment & Support Organisation Visits Northrop Grumman Information Systems at Fareham

Tim Flesher, chief of Corporate Services at the MoD's Defence Equipment & Support visited NG ISE's Leander House facility in Fareham, UK. Pictured left to right: Sir Nigel Essenhigh, chairman, Tim Flesher, Paul Davison, managing director, Northrop Grumman Information Systems Europe.



Northrop Grumman Presents Royal Navy Maritime Intelligence Award

The Royal Navy Intelligence Trophy, sponsored by Northrop Grumman Information Systems Europe, was presented to HMS MONMOUTH's ships Maritime Intelligence Team by Rear Admiral Mark Anderson, Commander Operations (COMOPS), pictured far left. Paul Davison managing director Northrop Grumman Information Systems Europe is second from left.

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Northrop Grumman ISE Launches UK Graduate Recruitment Programme

Chris King from Northrop Grumman Remotec demonstrates a Wheelbarrow robot to a group of students at Nottingham University

Northrop Grumman Information Systems Europe launched its graduate programme at a careers event for undergraduate engineers at Nottingham University. The programme targets software engineers, a vital skill for the company and includes rotational assignments within each of the Northrop Grumman Information Systems businesses – air traffic management (NG Park Air Systems, Peterborough), C4i (Fareham) and UGVs (NG Remotec, Coventry). The company also attended graduate recruitment fairs at Warwick University and Southampton University.

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Events - Exhibitions and Conferences 2009

Date	Event	Venue	Further details
17 - 19 Jul	Royal International Air Tattoo UK	RAF Fairford Fairford UK	www.airtattoo.com
21 - 23 Jul	UV Europe Conference (Shephard)	Celtic Manor Resort Newport and West Wales Airport Parc Aberporth Wales	www.shephard.co.uk
12 - 15 Aug	BRIDEX Brunei Darussalam International Defence Exhibition & Conference	Jerudong Brunei	www.bridex2009.com
13 - 16 Aug	Taipei Aerospace & Defence Technology Exhibition (TADTE)	Taipei World Trade Centre Taipei Taiwan	www.tadte.com
8 - 11 Sep	Defence Systems & Equipment International (DSEI)	ExCel Docklands London UK	www.dsei.co.uk

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29 Sep - 1 Oct	Post Expo	Deutsche Messe Hanover Germany	www.postexpo.com
29 Sep - 1 Oct	Maritime Reconnaissance & Surveillance Conference (IQPC)	Fara Palace Hotel Barcelona Spain	www.iqpc.com
20 - 25 Oct	Seoul International Aerospace & Defence Exhibition	Seoul Airport South Korea	www.seoulairshow.com
21 - 23 Oct	Integrated Homeland Security & Defence Systems INDESEC	Pragati Maidan New Delhi	www.indesec-expo.com
21 - 23 Oct	Maritime Systems & Technology MAST	Kistamassan Stockholm Sweden	www.mastconfex.com
1 - 6 Nov	Europort Maritime	Rotterdam Holland	www.europortmaritime.nl
15 - 19 Nov	Dubai Air Show	Airport Expo Dubai UAE	www.dubaiairshow.aero

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1 - 4 Dec	Marintec	Shanghai New International Expo Centre Pudong Shanghai China	www.marintecchina.com
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