



Update

Issue 04 July/August 2005

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Type 45 Anti-Air Warfare Destroyer

The Type 45 Anti-Air Warfare Destroyer is one of the largest engineering and defence programmes in the UK. It is directly securing thousands of jobs across the UK in a wide variety of industries and will provide a cutting-edge naval air-defence capability to the Royal Navy.



A regular briefing on progress and key activity on one of the UK's largest defence programmes. This briefing is intended to give interested parties an overview on certain key aspects of the programme. It is informal and not intended for direct reproduction.

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Daring comes together as she readies for February launch

The entire first of class Type 45 destroyer, Daring, has been linked up, giving the first true impression of the true scale of the new ships. Daring will now be prepared for launch in February 2006.

The 1,000 tonne bow section of the ship, block E/F, was lifted onto transporters and moved out of the main assembly hall at the Portsmouth construction facility of Naval Ships' Type 45 partner VT on Friday 27 May. It was manoeuvred onto keel blocks before being loaded onto VT's purpose built "Woolston" barge and fastened into place ready for shipping to the Clyde. The voyage began on 8 June, with arrival at Scotstoun on time and without incident on 13 June.

BAE Systems Naval Ships Operations director Ian Pike said: "I have no doubt that we are going to meet the launch date and that the ship will be prepared for launch by the end of December."

Outfit levels on the ship showed a 40 per cent improvement over previous classes, but could be improved still further and will be on the second ship", Ian said. "It is very important that we capture and incorporate significant change from Ship 01 to 02."

Radar mast dominates skyline to de-risk Type 45

The month of May marked a major change to Portsdown Hill in Portsmouth, where the Type 45 long range radar (LRR) antenna and mast module now dominate the skyline. Both have been installed on top of the Maritime Integration and Support Centre (MISC), following their delivery to the site early in April.

This installation is a major milestone in the programme to de-risk the Type 45 combat system testing and integration before installation on first of class HMS Daring.

The mast module was fully outfitted at the radar manufacturer's site and the radar was "stand alone" tested before being dismantled and delivered to Portsmouth.

All the required services are now being connected to the mast and antenna. These are identical to those being provided on the ship and include power supplies, ventilation, chilled water and communications.

On completion of this work the LRR will begin two months' setting to work, before being handed over by the Ministry of Defence to BAE Systems Naval Ships for integration trials being carried out by the Type 45 Combat System Agency.

The LRR is manufactured by BAE Systems Integrated System Technologies (Insyte), formerly AMS, under subcontract from UKAMS, the PAAMS (Principal Anti-Air Missile System) prime contractor for Type 45.

Test success for remotely controlled gun

The two small calibre guns for first of class Type 45 HMS Daring have passed their factory acceptance test.

They have achieved everything short of firing and are due for delivery to the Clyde next year. The gun will be the first carried by a Royal Navy ship to be operated from a remote electro-optical gunfire control system (EOGCS) instead of by an operator sitting on the mount. This particular version has been developed especially for Type 45.

Controlling the gun with an EOGCS offers increased accuracy as well as improving the operator's safety

Combat system 'hub' reaches full capacity

As factory testing of combat system equipment for Type 45 reaches its peak the latest release of software for the hub of the ship's combat system is so significant that it has been designated a major project milestone by the Type 45 Prime Contract Office.

Software for the combat management system (CMS), which provides the principal operator interface to the Type 45 combat system, is being released in six phases and Release 2.1.0 is the fourth and most crucial to date.

Release 2.1.0 provides a step change in the available functionality. It includes full capability in support of PAAMS (Principal Anti-Air Missile System) and introduces control of the long range radar (LRR).



Left: First of class Type 45, Daring, on the covered berth at Scotstoun, Glasgow

Right: The Type 45 long range radar (LRR) antenna and mast module at the Maritime Intergration and Support Centre (MISC)

Warship data to go online

BAE Systems has begun work on developing the first fully electronic technical documentation suite for the first Type 45 Anti-Air Warfare Destroyer.

The technical documentation, used both to operate and maintain HMS Daring, will be delivered by BAE Systems Customer Solutions and Support (CS&S) in spring 2008 to allow crews to become fully conversant with it well in advance of the destroyer's sea trials and subsequent handover to the Royal Navy.

The contract involves compiling an estimated 60,000 pieces of raw text and design drawings into a common database which meets AECMA S1000D – the international specification for technical publications.

The data will be viewed using trilogi, a software browser also developed by BAE Systems. Most of the authoring work will be conducted by BAE Systems people at Scotstoun, Filton and VT Group employees in Portsmouth.

CS&S Naval managing director Nigel Billingham said: "This is an important contract and gives us the opportunity to demonstrate that we can harness the capabilities from across BAE Systems and deliver high-quality, complete solutions to our customers."

