

ACA

Weekly Communication

News

Propulsion Motor fitted

Congratulations to the team at Govan who coordinated a flawless operation to fit the first propulsion motor into HMS Prince of Wales.

The 113-tonne motor is the first of four which will be fitted to the ship. The next one arrives today (Monday Sept 9).



LRR and Mast Cap journey to Rosyth

In another step towards delivery of HMS Queen Elizabeth, the Long Range Radar (LRR) and forward island mast cap left Hengelo for the journey to Rosyth. They are due to arrive at Rosyth today (September 9)

The LRR is specified to meet both Mission Systems and Aviation team requirements. The system is similar to the S1850M installed on the RN Type 45 destroyers, developed by the collaborative partnership between Thales Netherlands and BAES Maritime Services. The mast cap was manufactured by Babcock at Rosyth from drawings produced by design teams in the ACA at Bristol and the drawing office at BAES Portsmouth.



Spotlight on....

Scott Fulton – Assistant Project Manager



Where did you start your career?

After university I joined the Graduate Scheme with BAE Systems working in

Scotstoun as a supervisor on the Brunei contract. At the moment I am the Assistant Project Manager for LB04 Ship 2.

What does your job involve?

I am responsible for the day to day management of people, processes and equipment; making sure it all comes together. I am the 'go-to' person for any issues, so my role involves a lot of trouble shooting.

What experience in the project has been the best for you so far?

It has to be when LB04 rolled out of the shed. Seeing 12,000 tonnes of steel leaving on the day it was supposed to was a great achievement for the team and something I am really proud of.

What is your biggest challenge to date?

Definitely the scale of the programme. QEC is a monster, even compared to Type 45.

What do you do in your spare time?

At the moment I am building a kit car; a replica Lotus 7. It is a long term project and is taking me a lot of time. HMS Queen Elizabeth will be completed before I get round to finishing my car!

In Service maintenance procedures available

The first QEC system now has its asset list and maintenance procedures in the MoD maintenance management system (UMMS) . The maintenance strategy for QEC is a derivative of that prepared for T45, but with different industry partners and updated IT tools. The QEC approach improves the coherence across all the elements that come together to enable accurate, safe and defensible maintenance to be scheduled, conducted and recorded.

This is an important step on the journey to enabling ships staff to maintain the systems. Ships staff will conduct maintenance on behalf of the ACA as systems are commissioned and handed over.

Combat Management system tested

HMS Collingwood hosted the latest of a series of trials designed to test QEC's Combat Management System and Visual Surveillance System.

Thirty seven trainees from the Maritime Warfare School acted as operators, led by Chief Petty Officer Dean Button, performing tests provided by the Aircraft Carrier Alliance. The systems, which are key for the successful delivery of both ships, performed well despite scenarios designed to cause disruption.



HMS Queen Elizabeth

Rosyth

HMS Queen Elizabeth LB04:

- The monthly Care and Protection Audit reported a satisfactory rating
- Compartments expected to be signed off by the client this week include three in ring and 1 on ring
- 182 pipe spools have been tested this week with this number expected to reach circa 300 over the weekend.
- Seven compartments in the Medical Complex will be called for their initial behind linings inspection this week.
- On the shaft programme the port side A frame is now positioned to the projected line of sight. The port side 1 plates which will support the shaft's installation have been fitted.

Tanks

The first internal tank has achieved its Compartment Completion Inspection with zero defects. SSSL continue to progress with the shot blasting and painting. One of the largest Tanks, which is 704 cubic metres, is currently going through its water test which is expected to be signed off by Lloyds next Tuesday.

Assembly

Sponson 11 is moving this weekend to the hard standing next to No. 1 Dock where it will have final lockouts installed and green cut.

Manufacturing

Mastcap 2, continues to make good progress, activities currently on-going include; PO1 Outfitting, Pipework and paintwork & insulation is also taking place. HMS Prince of Wales, the manufacture of units in the heavy fabrication bays is continuing with PO1 outfit also being installed during this phase.

In the Syncrolift building, sponsons 03 and 04, the PO1s are being installed on 4 and 5 deck. The stub units are being installed on the cradles for sponsons 05 and 06 forward, and the stub units are now being erected onto the cradles for sponsons 09 and 06 Aft.

Appledore

Application of the paint system to the first batch of Sponson 2 units for HMS Prince of Wales is currently taking place, manufacture and delivery of catwalk units for HMS Queen Elizabeth has been scheduled to meet up with the requirements of vessel build.

HMS Prince of Wales

Portsmouth

HMS Prince of Wales LB02:

- SSSL now making preparations for tank blasting and painting in G Ring.
- The final pieces of lock-out equipment are being shipped into D Ring, which joins to E-FG next week.
- Painting has completed on C Ring 5 & 6 decks, and insulation and outfitting is complete in the area for cabin installation.
- A temporary power has been supplied to a cabin on E Ring to confirm all cabin electric systems are fully functioning.
- Pipe installation continues well through all rings with a total of 5267 installed to date.
- 2181 metres of venting has been installed. HVAC is continuing on C Ring for cabin install and progressing well

HMS Prince of Wales CB02:

- There are 12 units in Hall A where the unit construction phase is progressing well.
- Unit C207 is in paint, and hotwork continues on unit C208.
- C203 has had the Greens cut and two lock out items fleeted in to the unit and now has been erected on to the Ring A build and transportation grillage for consolidation.
- Construction of the
- Ring B build and transportation grillage is nearing completion.
- Unit C206 centre section is in position, and Unit C204 will be turned and ready for Greens to be cut at the end of week 36.



Ring A and LB02 in Hall B

Govan

HMS Prince of Wales LB03:

- There have been no accidents or incidents on the block this week, and no lost working day cases since April 2012.
- The ring L lift hatch is now in the final phase of installation which means that the final castellation can be lifted into place several weeks ahead of the plan. This will complete the general steelwork programme.
- 8km of cable has been pulled bringing the total to 220km, well on the way to reaching the goal of 260km by December .
- 35,119 electrical terminations have been completed to date, with 9936 cores check-wired.
- Ticon are fixing the Hilti grids in 5 deck and 6/7 deck cabin areas.
- To date there are 8,868 pipe spools installed.
- The pipe testing programme also continues with 52% (4816) spools mechanically tested and 50% (4660) of the spools pressure tested.
- Compartment Hand-Over Inspections (CHOIs) have been progressing with 17 compartments inspected.

HMS Prince of Wales LB04:

- There are 100 units in preparation with 89 in the fabrication stage and 67 in the shipbuild hall.
- Unit LP08 was successfully erected and the dry survey of LS12 was completed last week on plan.
- The first propulsion motor was installed this week (see front page).
- Shotblasting the External Shell of Rings M&N is now almost complete. The next stage is to apply the full paint system before returning to shotblast the contact points.
- Progress is also on-going inside the machinery spaces thanks to the introduction of a second blast team.



Tyne

HMS Prince of Wales CB03:

- Ring H painting has been completed in way of join ups.
- All ring H compartments are now insulated and work continues to insulate ring H hangar.
- Installation of routed systems has begun in earnest in ring H (picture below and top right) with pipe, cable basket and vent being installed
- Ring J is completing its hotwork inspections ahead of the movement into the paint cell on 13th September.
- Ring K bulkheads continue to be erected and 3D units have been produced
- Ring LK is being manufactured in fabrication shed (panels) and additional fabrication area on the other side of the yard (bulkheads.)



Merseyside

HMS Prince of Wales CB02:

- Ring G bulkheads continue to be erected with the first two units now 3D for 3 deck (see below).
- 2 deck bulkheads and panels are now being prepared
- The first of the flight plates arrived last week to allow an opportunity to be realised for acceleration of these units.
- Ring F call offs are due to go in this week.



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