

- **Sidewinder** is a short-range air-to-air missile which has been withdrawn from service. The Sidewinder Tactical Missiles are in use for pilot training on Hawk T1 and Hawk T2 aircraft.
- **Rangeless Airborne Instrumented Debriefing System (RAIDS)** is a missile-like pod (not a weapon) that allows for flight missions to be accurately debriefed.
- **SPEAR Capability 3** is a new 100kg class weapon being developed to be the primary air-to-ground armament for Lightning II from 2021, and optimised for internal carriage. SPEAR Capability 3 will provide the capability to destroy/defeat a wide range of targets at range, including mobile and re-locatable targets, in all weathers day and night, in complex environments under tight rules of engagement (ROE).
- **Storm Shadow Weapon System (SSWS)** provides the RAF with a stand-off, precision strike capability that is deployable day or night in most weather and operational conditions against heavily defended and high-value targets. It is launched from Tornado GR4/4A and, soon, Typhoon aircraft.
- **SPEAR Capability 4** is the Mid-Life Refurbishment (MLR) project for the SSWS. A Memorandum of Understanding is in place to continue co-operative working with the French during demonstration and manufacturing.

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TORPEDOES, TOMAHAWK AND HARPOON (TTH) PROJECT TEAM

The Torpedoes, Tomahawk and Harpoon (TTH) Project Team is responsible for the acquisition and support of the UK's Spearfish heavyweight and Sting Ray lightweight torpedoes as well as the Tomahawk Land Attack Missile (TLAM) and Harpoon missile and their respective weapons systems.

This spans all activities including development, manufacture, in-service support, inventory management and disposal. Spearfish provides the Royal Navy's frontline anti-submarine and anti-surface capability; Sting Ray is deployed from Type 23 Frigates and Merlin and Lynx helicopters; TLAM is carried on Trafalgar and Astute Class SSNs; and the Harpoon missile is carried on Type 23 and 45 Frigates.

It should be noted that purchase of missiles

for both TLAM and Harpoon is through Foreign Military Sales cases with the USA Government.

The Project Team is currently responsible for the following projects: Spearfish, Sting Ray, TLAM, Harpoon and Maritime Patrol Aircraft weapons – the Mk54 lightweight Torpedo and Air-Launched Harpoon missile.

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TTH PT Business Manager

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INTERNATIONAL GUNS, MISSILES AND ROCKETS (IGMR) PROJECT TEAM

The International Guns, Missiles and Rockets (IGMR) PT based at Abbey Wood procures and supports a wide range of weapons – including manportable shoulder-launched weapons for the Army, Royal Navy guns including Close-In Weapon Systems, air-launched missiles, rockets and bombs, and fixed and rotary wing guns for JHC and the RAF.

It comprises 100 staff based at DE&S Abbey Wood, Bristol and is responsible for the following projects:

- Anti-Structures Munition (ASM) for the Army
- Javelin Missile for the Army
- Exactor 2 for the Army
- Next Generation Light Anti-Armour Weapon (NLAW) for the Army
- 20/30mm Cannons and Automated Small Calibre Gun for the Royal Navy
- Force Protection Measures for the Royal Navy
- General Purpose Machine Gun mountings for the Royal Navy
- 4.5" Mk8 Gun for the Royal Navy
- Gun Fire Control Systems for the Royal Navy
- Phalanx (20mm) Close-In Weapon Systems for the Royal Navy
- Hellfire Missile for JHC
- Rotary-wing Guns and Rockets for JHC
- Mauser Cannon for the RAF
- M3M and M134 for JHC
- Paveway Bombs for the RAF
- Bomb Fuses for the RAF
- Practice Bomb for the RAF
- Miniguns for the Royal Navy and RAF
- Laser Sighting Systems for the Royal Navy
- Killer Tomato Targets for the Royal Navy
- Electro-Optic Systems for the Royal Navy
- Ceremonial Guns for the Royal Navy

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IGMR Project Team Business Manager

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DEFENCE GENERAL MUNITIONS (DGM) PROJECT TEAM

The Defence General Munitions (DGM) Project Team is responsible for the acquisition, in-service management and disposal of all general munitions in support of all three Services.

Within the inventory, DGM manages over 700 different explosive natures as well as several hundred non-explosive items.

Contact details:

DGM PT Business Support

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COMBAT AIR OPERATING CENTRE

JOINT PROPULSION TEAM (JPT)

JPT is the focal point for the MOD's relationship with Rolls-Royce. This small project and commercial team is co-located at Rolls-Royce in Bristol together with elements of Combat Air engine teams.

It has commercial responsibility for the Typhoon and Tornado engines and is the MOD lead for tackling cross-platform issues and for driving continuous improvement.

Contact details:

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UNMANNED AIR SYSTEMS (UAS) TEAM

The UAS Team is responsible for UAS acquisition policy and standards, safety and engineering discipline, future research and development, and providing guidance to industry on all matters UAS from within DE&S.

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