

# Cannon EMC Trial Programme

## Case study overview

CTAI approached HORIBA MIRA to be its dedicated test and engineering partner, when planning for successful delivery of its EMC and electrical trial requirements to DE&S. The Series Production contract for supply of 40mm Cased Telescoped Cannons to the AJAX armoured vehicle fleet required a full engineering service to include method development, multi-year planning and trials delivery of compliant systems alongside numerous customer groups across the UK and France.

Engineering team deployed: Richard Harrison (Programme Manager) - in EMC but working for PM Andy Mead (EM Technical Specialist, WEMEC (Contractor)), Callum Morris, Matthew Denton, John Shaw, Matthew Parkin (EMC Technicians / Engineers) - in EMC.

### Standards involved:

- Defence Standard 59-411 Parts 3 & 4 (2008, Amendment 1)
- Defence Standard 61-5 (Issue 6 Part 6 Feb 2009)



Attributes and Performance



Defence



UK & France



HORIBA MIRA has provided invaluable technical and programme management support to establish contract-compliant units to DE&S and directly assisted supply of our advanced weaponry to the end customer.

**Ian Wells, CTAI Programme Manager (SP Cannons)**



# Approach

CTAI are a company whom HORIBA MIRA have worked with over the last 10+ years in the field of Defence. We have conducted EMC & Electrical trials within our class-leading test facilities in the UK and at their test and development premises in Bourges, France.

We have also provided direct technical assurance / governance through a consultancy support contract to their EM Manager since 2017. Through centralised delivery, we have delivered all EM and electrical trials required to successfully deliver CTAI contractual requirements to DE&S (MoD) for the cannons being installed within the AJAX armoured fighting vehicle fleet.

## Successes and benefits

HORIBA MIRA supported CTAI in multiple test and consultancy areas, recognising trial hurdles and leading success through their technical expertise to deliver class-leading agile support alongside the cannon production schedule, to meet contractual obligations in full:

- ✓ **Cross-site HORIBA MIRA trials** delivery, centralised coordination and programme management
- ✓ **Through-life consultancy and support**, demonstrating a proven agility for delivery of high-impact technical challenges and contract gateway success in cadence with the challenging production output
- ✓ **Strategic, risk-managed** delivery of on-site EMC test and development solutions alongside CTAI's engineering team for minimised scheduling impact
- ✓ **Specialist test and consultancy** support to designated CTAI trial sites leading to compliant engineering part development to meet challenging production timeframes



## Deliverables

- ✓ Providing EMC and electrical engineering expertise, UKAS accredited facilities and an innovative approach to overcome design and integration challenges for delivery of robust solutions
- ✓ Supply of EMC technical delivery and project management expertise, steering essential decision-making for trials and development throughout the contract
- ✓ Successful delivery of compliant systems to the EMC, electrical and environmental contract requirements stipulated by DE&S