

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: A team of 6 EMC specialists based at HORIBA MIRA including a Programme Manager, a EM technical specialist, WEMEC contractor and four EMC technicians / engineers.

Standards involved:

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



EMC



Defence



UK and 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 and 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