

KBRwyle
We Deliver

Air and Missile Defense Systems



Supporting Large-scale, Complex Missile Systems

Creating a Battlespace Advantage

KBRwyle provides mission critical, trusted independent agent services that help the United States maintain its unique and indispensable battlespace advantage. KBRwyle's Air and Missile Defense (AMD) expertise includes full spectrum life cycle programmatic support; sustainment engineering; systems engineering, integration and technical analysis; modeling and simulation; and weapons systems engineering.

Capabilities

- Acquisition/Program Management
- Configuration Management
- Data Collection, Reduction and Analysis
- Foreign Military Sales
- Information Technology
- Lifecycle Logistics
- Light Manufacturing
- Modeling and Simulation
- Operational Evaluation Support
- Product Assurance
- Prototyping
- Systems Engineering
- Systems Integration
- Test and Evaluation
- Training and Exercise Support

Systems Supported

- Army Integrated Air and Missile Defense (AIAMD)
- Avenger/Stinger
- Missile Defense Agency (MDA), Ballistic Missile Defense System (BMDS), Aegis Ashore, C2BMC, Cobra Dane, Ground Based Interceptors (GBI), and SBX
- Counter-Rocket Artillery and Mortar (C-RAM) system
- Cruise Missile Defense Systems (CMDS)
- Forward Area Air Defense Command and Control & Intelligence (FAADC2I) system, and Tactical Operations Centers (TOCs)
- Future Combat System (FCS)
- Joint Tactical Ground Station (JTAGS)
- National Capital Region Integrated Air Defense System (NCR-IADS)
- Non Line of Sight Launch System (NLOS-LS)
- Patriot Missile System
- Sentinel Radar
- Tactical High Energy Laser / Mobile Tactical High Energy Laser
- Terminal High Altitude Area Defense (THAAD) System
- FMS Support for HAWK, Javelin, Lance, Hydra-70, Dragon and others

KBRwyle Advantages

- 55+ years Systems Engineering, Integration and Test (SEIT) experience, including wartime battlefield response
- 35+ years supporting U.S. Army air and missile defense systems
- 35+ years as a trusted independent agent providing OCI-free mission-critical services to the U.S. Army
- **Global:** Provides U.S. Army Aviation and Missile Life Cycle Management Command Security Assistance Management Division (SAMDM) support on 1,057 FMS cases with 84 countries
- **Quality Focused:** Maintains rigorous systems engineering procedures, processes and techniques
- **Highly-Skilled:** Invests in our workforce with industry-recognized certification programs (i.e. INCOSE, PMP), continuous improvement training and refresher training
- **Proven:** Delivers world-class talent, experienced management and technical processes to manage even the most complex projects from concept through deployment
- **Scalable:** Excels in the development and acquisition of large-scale systems engineering programs
- **Easily Accessible:** Available through multiple contract vehicles, including DSTAT, AMCOM EXPRESS OASIS and D3I

High Impact Solutions

Counter-Rocket Artillery and Mortar (C-RAM)



In response to a U.S. Central Command (CENTCOM) urgent Operational Need Statement (ONS), KBRwyle supported the development a concept for use of existing sensors and command and control (C2) systems supporting intercept and destruction of rockets, artillery and mortars. KBRwyle assisted with the integration of three existing intercept systems, with existing sensors and C2 and provided valuable support to the initial proof-of-testing.

Result: These systems engineering and integration solutions led to successful fielding and protection of warfighter critical forward-based personnel and assets.

Patriot Missile Defense System



KBRwyle provided systems engineering, integration and test support to the Lower Tier Project Office (LTPO) during planning, execution and analysis phases of FTI-01, the largest and most complex missile defense flight test ever attempted. Our close coordination with warfighter on island, and use of reach-back expertise, assisted in the successful detect, track and near simultaneous engagement of ballistic missile and cruise missile targets by the PAC-3 Missile System over the broad ocean area northeast of Kwajalein Atoll.

Result: KBRwyle contributions to the Patriot Missile System over the past 35+ years support continuous system enhancements to battlespace performance against evolving threats.

Army Integrated Air and Missile Defense (AIAMD)



KBRwyle performed independent analysis and system threat assessments for the development, implementation and evaluation/testing of interoperability requirements and architectures used to integrate LTPO systems with IAMD, THAAD, and MDA systems. We provided analysis and documentation to aid technical information exchange critical to systems integration. We also defined an interface to IAMD Integrated Fire Control Network (IFCN), using a KBRwyle-developed real time data distribution system.

Result: KBRwyle ensured the successful integration of LTPO systems with IAMD, THAAD and MDA systems.

Ballistic Missile Defense System (BMDS)



KBRwyle developed the BMDS Operational Test Agency (OTA) Modeling and Simulation (M&S) Accreditation Plan approved by all OTA commanders as the single source document for all M&S accreditation within MDA. The plan received positive comments from all OTA commands for its comprehensive performance parameters, acceptability criteria and analytical approach for accrediting BMDS M&S. The KBRwyle tool, Athena, was leveraged to support timely and accurate BMDS, THAAD and AN/TPY-2 assessments critical for testing, fielding, and deployment decisions.

Result: KBRwyle tools and processes led to reducing the Army Test and Evaluation Command test reporting timeline by one-third.

Trusted Air and Missile Defense Services

Customers

- U.S. Army PEO Missiles and Space (PEO MS)
- U.S. Army Lower Tier Project Office
- U.S. Army Space and Missile Defense Command/Army Forces Strategic Command (SMDC/ARSTRAT)
- Missile Defense Agency (MDA)
- Combatant Commands
 - NORTHCOM
 - STRATCOM
 - PACOM
 - CENTCOM
 - EUCOM
- Additional Users:
 - U.S. Army Communications Electronics Command (CECOM)
 - U.S. Army, Fort Sill
 - U.S. Air Force Space Command
 - U.S. Army PEO Soldier Air Warrior Program



About KBRwyle

KBRwyle is the global government services business of KBR, Inc. (NYSE: KBR). KBRwyle delivers full life cycle professional and technical services from over 60 U.S. and 40 international locations. The company is trusted to lead many of the world's largest and most critical government programs. KBRwyle's core capabilities include logistics, engineering, operations, science, program and acquisition management, IT, cyber and security services.

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