Business Opportunities in Air and Missile Defence Command and Control

Frederic Cloutier, Chief Projects Implementation Branch, AMDC2
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Air and Missile Defence Command and Control

- AirC2 and BMD Programme Management
- Architecture and Coherence
- Acquisition Projects (Industrial Development)
- Maintenance and Production
- In-Service Support
Air and Missile Defence Command and Control

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<th>Project / Programme</th>
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<td>ACCS Communications Security Border Protection Devices</td>
<td>Mr Philip Chulick</td>
<td>9M</td>
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<td>Ship-Shore-Ship-Buffer Advanced Link Analysis Module (ALAM)</td>
<td>Mr Philip Chulick</td>
<td>0.4M</td>
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<td>Ship-Shore-Ship-Buffer (United Kingdom)</td>
<td>Mr Philip Chulick</td>
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<td>Mr Bill Maley</td>
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<td>Mr Bill Maley</td>
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# Air and Missile Defence Command and Control

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<td>Mr Philip Chulick</td>
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<td>Mr Philip Chulick</td>
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<td>Air Command and Control System (ACCS) Ballistic Missile Defence (BMD) Increments 1 &amp; 2</td>
<td>Mr Bill Maley</td>
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<td>Defence Design System (DDS) BMD Increments 1 &amp; 2</td>
<td>Mr Bill Maley</td>
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<td>TOTAL</td>
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- Projected Invitation for Bid
- Projected Contract Award
ACCS Communications Security Border Protection Devices

• Provision and deployment of Boundary Protection Devices, as developed by NCI Agency, for Air Command and Control System (ACCS) sites for:
  • Air Traffic Control (ATC) Gateway
  • Civilian ATC sensors
  • Military sensors
  • World Meteorological Organization interfaces

Project Manager: Mr. Christos Tzoumkas
Value: €9M
Timeline: RFQ 2Q 2019, CA 4Q 2019
Contracting Officer: Mr Philip Chulick
Email: philip.chulick@ncia.nato.int
Ship-Shore-Ship-Buffer Advanced Link Analysis Module (ALAM)

• The purpose of the ALAM is to monitor and analyze the quality of the Tactical Data Link (TDL) communications, providing:
  • TDL Waveform Detection and Analysis,
  • Overall assessment of TDL Quality,
  • Data Injection capability,
  • Data recording, in both analogue and digital format,
  • Data Replay,
  • Comprehensive presentation of the analysis results to the SSSB / Communications Operator,
  • Web interface for monitoring, analysis, configuration and control,
  • Serial protocol for monitoring, analysis, configuration and control.

• The ALAM foresees the production and delivery of a NCI Agency ALAM design for:
  • Ashore, static units
  • And mobile units
  • Total quantity approximately 50 units

Project Manager: Mr Daniel Harman
Value: €435K
Timeline: IFB 3Q 2019, CA 1Q2020
Contracting Officer: Mr Philip Chulick
Email: philip.chulick@ncia.nato.int
Ship-Shore-Ship-Buffer (United Kingdom)

- Re-organize and modernise existing Ship Shore Ship Buffer system in the United Kingdom
  - Replacement of obsolete antennas and obsolete radios.
- Rationalise the Buffer Centre structure, extend the coverage area and prepare for the introduction of a Link 22 capability in addition to Link 11
  - Upgrade of data link modems and related equipment to support Link 22
- Integration of full Internet Protocol networks.
- Three locations

Project Manager: Mr Daniel Harman
Value: €2.9M
Timeline: IFB 3Q 2020, CA 2Q 2021
Contracting Officer: Mr Philip Chulick
Email: philip.chulick@ncia.nato.int
Ship-Shore-Ship-Buffer (Greece)

- Reorganise and modernise existing Ship Shore Ship Buffer system in Greece
  - Replacement of obsolete antennas and obsolete radios.
  - Implementation of new radio sites
- Rationalise the Buffer Centre structure, extend the coverage area and prepare for the introduction of a Link 22 capability in addition to Link 11
  - Upgrade of data link modems and related equipment to support Link 22
- Integration of full Internet Protocol networks
- Four locations

Project Manager: Mr. Daniel Harman
Value: €7.5M
Timeline: IFB 4Q 2020, CA 3Q 2021
Contracting Officer: Mr Philip Chulick
Email: philip.chulick@ncia.nato.int
Ballistic Missile Defence Integration Testbed Build 6

- Extend capabilities of the testbed in The Hague to support the future increments
- Development of functional components:
  - New threat models;
  - Consequence of Engagement (CoE) / Consequence of Intercept (CoI) models;
  - Training White Cell functions
- Integration of hardware and software components

**Project Manager:** Mr Laurent Smith  
**Value:** €10M  
**Timeline:** Request for Bidder views 3Q2019, IFB 2Q 2020, CA 2Q 2021  
**Contracting Officer:** Mr Bill Maley  
**Email:** bill.maley@ncia.nato.int
System Engineering and Integration

- BMD capability architecture design and specification of system requirements and interfaces
- Technical monitoring of implementation projects, including Engineering Change Proposals and review of design
- Integration and verification of BMD architecture systems
- Operation and maintenance of BMD Integration Test Bed
- Support to operational integration, assessment, service transition, and validation
- Support to BMD training and exercises

Project Manager: Mr. Maurizio Pennarola
Value: €35M
Timeline: IFB 1Q 2020, CA 2Q 2021
Contracting Officer: Mr Bill Maley
Email: bill.maley@ncia.nato.int
Voice Communication Equipment Addendum 2

• Procurement of Voice Communication Equipment:
  • Ground - Air - Ground;
  • Ground - Ground;
  • Voice over Internet Protocol (VoIP);
  • Secure / Non – secure.

• Interface with Air Command and Control System
• For deployment in Albania, Croatia, Slovakia and Slovenia
• Tied to the implementation of the ACCS system in the four nations

Project Manager: Dr Tibor Papp
Value: €20M
Timeline: IFB 2Q 2020, CA 4Q 2021
Contracting Officer: Mr Philip Chulick
Email: philip.chulick@ncia.nato.int
AirC2IS Increment 2 Revised

- Implement the next increment of Air Command and Control Information Systems (AirC2IS) addressing:
  - Theatre / Ballistic Missile Defence Planning
  - Order of Battle / Air Operations Directive Development
  - Air and Theatre / Ballistic Missile Defence Monitoring
  - 53 million EUR

- Contractual Options
  - Air Command and Control:
    - Integrated Air and Missile Defence Planning
    - Air Mission Planning and Tasking
    - Airspace Management
    - Command and Control Resource Management
    - Air Mission Execution Management
  - Options package subject to authorization
  - 106 million EUR

- Project authorization process may impact schedule
ACCS BMD Increment 1 & 2

- Adaptations to the Air Command and Control System for territorial Missile Defence and integration of upper layer weapon systems in the areas of BMD:
  - Tasking;
  - Engagement;
  - Surveillance;
  - Passive Defence;
  - Training.

Project Manager: Ms Margaret Lovgren

Value: €175M

Timeline: IFB Q2 2021, CA Q2 2022

Contracting Officer: Mr Bill Maley

Email: bill.maley@ncia.nato.int
DDS BMD Increment 1/2

• Provide analysis and simulation services to develop and evaluate defence designs implementing new BMD concepts:
  • Launch on Remote (LOR)
  • Engage on Remote (EOR)
  • Engagement Coordination (EC)
  • Consequence of Intercept (CoI)
  • Consequence of No Intercept (CoNI)
  • Consequence of Engagement (CoE)

Project Manager: Ms Margaret Lovgren
Value: €95M
Timeline: IFB Q3 2021, CA Q4 2022
Contracting Officer: Mr Bill Maley
Email: bill.maley@ncia.nato.int
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