

Aviation Logistics Division (ALD)

Core Functions:

ALD provides financial management, provisioning guidance, property accountability, logistics compliance, fiscal accounting, requirements-based budgeting, data and trend analysis, logistics decision support, credit card program management, HAZMART operations, internal controls and audit readiness, and supply system reconciliation.

Desired Capabilities:

- Logistics
 - HAZMAT logistics (including Base support)
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Aviation Technical Training Center (ATTC)

Core Functions:

ATTC develops leaders of character equipped with technical skill and confidence to execute and support Coast Guard missions' fleet wide. ATTC provides technical training for Coast Guard aviation personnel, including AMT and AET "A" School and advanced Maintenance Training Units. The center implements and evaluates curriculum to ensure fleet-wide readiness and adaptability and supports continuous professional development and qualification maintenance.

Desired Capabilities:

- Augmented Reality (AR) and Virtual Reality (VR) for flexible, immersive training
 - Artificial intelligence for curriculum development and modernization
 - Improved computer solutions for student access and training delivery (including evaluation of Chromebook adoption)
 - Streamlined contracting processes for services and training support (potentially leveraging ALC Contracting vs BPR)
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Base Elizabeth City

Core Functions:

Base Elizabeth City provides installation and operational support services to the Aviation Logistics Center and tenant commands. The Facilities Engineering Department includes Public Works, Fire Protection, and Environmental functions. Comprised of active duty and civilian personnel, the department is responsible for the upkeep and management of shore infrastructure across Coast Guard Base Elizabeth City, supporting mission readiness and operational effectiveness.

Desired Capabilities:

- Digital work order management and mobile field access for Shore Asset Management (SAM)
 - Expanded building automation solutions (HVAC, lighting, access/security, fire/life safety, energy management, environmental monitoring)
 - Facilities digital twin / "Base Operations" sandbox for infrastructure, utilities, and outage scenario modeling
 - Integration of Siemens HVAC and building automation data into a broader facilities digital sandbox
 - Environmental compliance tracking and monitoring (spill detection, storage tanks, stormwater, automated alerts)
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Business Operations Division (BOD)

Core Functions:

BOD serves as internal consultants to ALC, providing expertise in inventory management, production processing, SharePoint development, visual products, and business process engineering.

Desired Capabilities:

- Preventative maintenance tracking programs
 - Competency and training tracking
 - Performance metrics tracking
 - Software and AI-assisted document drafting
 - HAZMAT logistics tool (for ALD HAZMAT orders and inventory)
 - Augmented Reality / Virtual Reality
 - Artificial intelligence (reliability improvement)
 - Logistics (business IT and analytics)
 - Machine learning (business IT and analytics)
 - Modern software and AI-assisted document drafting tools to improve efficiency, consistency, and compliance in Coast Guard written products (policies, operational plans, acquisition documents, reports), reducing administrative burden and supporting mission execution
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Engineering Services Division (ESD)

Core Functions:

ESD is comprised of military, civil service, and contractor personnel providing aeronautical engineering support, aviation technical publications, aviation life support system management, quality oversight, and management of the Airworthiness Sustainment Program.

Desired Capabilities:

- AI initiative leveraging historical H-60 vibration data

- Study to determine C-27 propeller compatibility with C-130J aircraft
 - Collaborative solution for helicopter hoist OEMs and cable conditioning companies
 - Industry testing of Type VIII media impact on aircraft structures (metals, composites, etc.)
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Industrial Operations Division (IOD)

Core Functions:

IOD consists of 15 diverse shops providing cross-platform manufacturing, repair, and overhaul services for aircraft, aircraft components, and aircraft support equipment.

Desired Capabilities:

- Improved paint and coating removal processes
 - Automated ultrasonic inspections (UTI) for NDI
 - Environmentally friendly aircraft primer (replacement for hexavalent chromium)
 - Replacement of aging blast systems
 - Transition from paper to electronic records management
 - Solutions to address space constraints (MRR expansion, APAC, etc.)
 - Augmented Reality / Virtual Reality for paint and blast testing and cross-training
 - Protection of aircraft wiring during blast processes
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Information Systems Division (ISD)

Core Functions:

ISD's mission is to keep ALC and the Coast Guard always ready by delivering the right information solutions at the right time, cost, and scope while modernizing technology and maintaining standards and security.

Desired Capabilities:

- Cybersecurity
 - Lifecycle management
 - AI-assisted document drafting
 - Government cloud AI solutions
 - 3D printing
 - Automation technologies
 - Machine learning
 - Software modernization
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Long Range Surveillance (LRS) Product Line

Core Functions:

LRS delivers depot-level maintenance and technical support for HC-130J aircraft to ensure mission readiness and operational effectiveness.

Desired Capabilities:

- Surface removal and preparation
 - Damage and corrosion depth measurement
 - Corrosion detection under coatings
 - Confined space monitoring systems
 - Equipment and process modernization
 - Aircraft pressurization system troubleshooting
 - Fatigue technology (cold expansion of countersunk holes)
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Medium Range Recovery (MRR) Product Line

Core Functions:

MRR supports MH-60T aircraft through depot maintenance, aircraft conversion, service life extension, and surge production operations.

Desired Capabilities:

- Business IT and analytics
 - Lifecycle management
 - Logistics forecasting improvements
 - Product lifecycle management
 - Software with improved forecasting capability
 - AI-assisted document drafting
 - Advanced and additive manufacturing (potential vendor identification)
 - Prototyping
 - Reverse engineering
 - Composite manufacturing and repair
 - Reliability improvement through artificial intelligence
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Medium Range Surveillance (MRS) Product Line

Core Functions:

MRS provides engineering, logistics, depot maintenance, and sustainment support for the HC-144 Ocean Sentry and HC-27 Spartan aircraft.

Desired Capabilities:

- Cold spray
 - Laser coating
 - Corrosion detection under coatings
 - Corrosion protection
 - Through-coating inspection
 - 4D inspection
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Safety & Environmental Health Office (SEHO)**Core Functions:**

SEHO serves as a Safety Center of Excellence, providing flight safety, ground safety, environmental, industrial hygiene, and radiation safety support.

Desired Capabilities:

- Safety equipment tracking system (fall protection gear, inspection intervals, PL-purchased equipment)
 - Medical surveillance tracking system for approximately 800–900 personnel
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Short Range Recovery (SRR) Product Line**Core Functions:**

SRR manages maintenance, engineering, and supply chain support for the H-65 Dolphin helicopter.

Desired Capabilities:

- Damage and corrosion depth measurement, particularly in hard-to-reach areas
 - Product lifecycle management tools (make/buy/repair decisions, predictive supply chain and obsolescence management)
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Support Equipment Product Line (SEPL)**Core Functions:**

SEPL manages equipment required to service, repair, and troubleshoot capital assets, including tow tractors, fuel trucks, power carts, cranes, hoists, and automated manufacturing equipment.

Desired Capabilities:

- RFID asset tagging integrated with CMMS for equipment check-in/check-out and inspections
 - Enterprise-level support equipment maintenance, configuration, supply, and user proficiency tracking tools (potential cloud-based replacement for legacy systems)
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Workforce Management Staff (WMS)

Core Functions:

The Workforce Management Staff oversees the administration of all ALC human capital programs with the goal of providing exceptional customer service to all military and civilian personnel. Program management responsibilities are divided among the following areas: Command Support, Civilian Personnel, Military Personnel, Training, and Travel.

Desired Capabilities:

- Creation of a Competency Tool that tracks required competencies by position number