THE VALUE OF PERFORMANCE.

Special Mission Aircraft Solutions
Quick Reaction Capability

NORTHROP GRUMMAN
Aberdeen Integration Center (AIC) has been delivering rapid, affordable end-to-end integrated special mission aircraft capabilities for over 20 years. AIC is a quick reaction capability (QRC) focused on special mission customers that also brings with it the ability to leverage the technical might of Northrop Grumman as required. AIC is a Part 145 FAA Repair Station, is ISO9000 and AS9100C certified, and is DCMA 8210 compliant. Subject matter expertise includes:

- Concept of operations definition and mission system selection/requirements refinement
- Design, integration and modification of manned ISR commercial-derivative aircraft multi-intelligence integrated mission platforms:
  - Radar – surface and sea search maritime patrol
  - Electro-optical/Infra-red (EO/IR)
  - Communications Intelligence (COMINT)/Signals Intelligence (SIGINT)
  - Tactical communications
- Narrow band and wideband satellite communications
- Video and digital downlinks
- Mission computing systems
- Aircraft self-protection systems
- Mission system to cockpit avionics integration
- Past performance on a wide array of aircraft
- Flight, ground and mission scenario testing
- FAA and/or military airworthiness certification
- Operations, pilot and mission system operations
- Tailored maintenance and logistics support

Customers and Programs
AIC’s most recent QRC, low-cost manned ISR programs include:

- Multi-INT KA350’s for Foreign Military Sales program
- Counter-drug multi-INT platform for employment abroad
- Counter-insurgency and narcotics mutli-INT fleet of King Airs
- Multi-sensor fusion aircraft integration and flight test advanced concept demonstration program
- Worldwide logistics and mission systems support

**12 NG Airborne Test Bed**
AIC also owns and operates a rapidly reconfigurable airborne test bed known as “12 NG.” This cost-affordable test bed is available to customers, partners, and other Northrop Grumman business areas. The aircraft is designed for quick installation of multiple payloads, access to the aircraft’s data network and power, easy access to communications gear, and carry-on laptops for controlling the mission systems.

**Chimera**
AIC has also developed an IP-based, open architecture mission system software running on Windows that is capable of working with any sensor employing a moving map display, cross sensor cueing, alerting parameters and multiple sensor output combined display. The system also has an exportable version.

**Rolling Out**
Special Mission Aircraft menu of capabilities will expand in the areas of:
- Integrated ground stations, tailored and scalable in size for the customer
- Fee-for-service ISR to answer the growing requirement for contractor performed missions in the challenging organic manpower environment
- Search and rescue aircraft modifications
- Rotorcraft special mission modifications
- Multi-mission aircraft with roll on roll off capabilities
- Increased selection of exportable “recipes” for friendly/partner nations to expand upon the successes of recent foreign programs
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