

# Department of the Air Force

## *E-9 Virtual Industry Day 08 December 2022*

### *Airmanship, Training, and Unique Missions (ATUM) Branch*



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# Welcome

- Sign-in (around the room roll call)
  - Contractor POC verbally affirm presence in Microsoft Teams room when company name is called by the Government. Company names will be called in alphabetical order
- Briefing charts will be shared via Microsoft Teams
- Opening Comments – Government Team Introductions
- Questions
  - Please note – All questions asked during the Q&A session will be posted non-attribute to SAM.Gov. –Verbal questions and answers are not binding. Questions specifically related to an individual contractor will be considered as proprietary and shall not be asked during this event.

**ALL QUESTIONS MUST BE SUBMITTED IN WRITING**



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# Agenda

Time	Agenda Item	Presenter
8:30 – 8:45 AM	Welcome & Introductions	Ms. Deborah Harrigan
8:45 – 9:00 AM	Rules of Engagement- Contracting Disclaimer	Capt. Gao
9:00 – 10:30 AM	E-9 Program Overview & Preliminary Contract Briefing	E-9 Program Team Members
10:30 – 10:45 AM	Break	
10:45 – 11:45 AM	Questions & Answers	



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# *Team Introductions*

- **Ms. Deborah Harrigan**
  - Lead E-9 ARP Program Manager
- **Capt. Millie Gao**
  - Contracting Officer
- **Mr. Dillon Harrison**
  - E-9 Engineer
- **Ms. Ember Alexander**
  - Logistics Manager
- **Mr. Aaron Homjak Ctr**
  - Senior System Engineer
- **Mr. Donald Footer**
  - ACC A/4IA E-9 Logistics Manager
- **MSgt Nawrocki**
  - ACC E-9 Logistics Manager
- **MSgt Osborne**
  - 82<sup>nd</sup> ATRS



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# *Rules of Engagement*

- This event will be recorded
- Please mute your computer and/or phone
- Specific requirement(s) will not be discussed
- Please wait until the end of the brief for questions
  - Please use the “raise hand” function and unmute yourself once your name is called
- An event summary will be posted to [www.SAM.gov](http://www.SAM.gov) the following day



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# *Disclaimer*

- **The Government does not intend to award a contract based on the information received at this event**
- **This is for informational purposes only. The contents of any future RFP take precedence over anything provided during this briefing**
- **All questions must be submitted in writing to PCO**
- **Official written responses will be posted on beta.SAM.gov website with non-attribution**
  - **Verbal questions and answers are not binding**
- **Email contact only through PCO, Capt. Gao ([Qian.Gao.1@us.af.mil](mailto:Qian.Gao.1@us.af.mil))**
- **Costs incurred as a result of this event will not be reimbursed by the Government**

***All information included in this briefing is subject to change***



# Overview



- **Program Description**
- **Performance Locations Summary**
- **E-9 Configuration**
  - **SSR, TM**
- **Requirements Overview**
- **Technical Orders and Manuals**
- **Preliminary Solicitation Overview**
- **Preliminary CLIN Structure**
- **Preliminary Milestones**
- **Questions/Answers**



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# E-9A Mission



## Platform Facts

- Two Modified DeHavilland DHC-8-103 supporting
  - Sea Surveillance Radar (primary mission)
  - Telemetry Relay (secondary mission)
  - UHF Relay
  - Search and Rescue

## Challenges

- Primary Need: Aircraft availability to support mission
- Significant Issues – Telemetry data adequacy poor: system upgrade scheduled for FY23
- Sustainment of aging aircraft
- Increasing need for technology upgrades



## Warfighter Support

- Supports weapon development & testing
  - Air to Air Missiles
  - Air to Ground Weapons
  - Weapon System Evaluations
- Customers:
  - Air Force / Navy / Army
  - NASA (Space-X program)

## Key Facts

- Lead Command: ACC
- Based at Tyndall AFB
- User: 53rd Weapons Evaluation Group
- CLS Contract PoP: 2 Jun 22 – 01 Jun 24
- IOC: 1988
- AC Service Life: approximately 10,000 hrs for both aircraft





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# Performance Locations Summary



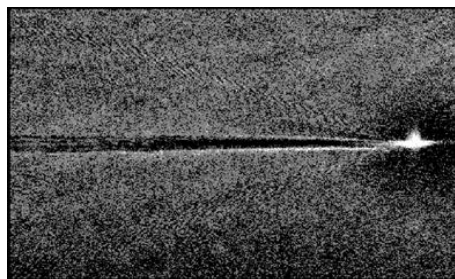
- Tyndall AFB, Panama City, FL (Main Operating Base)





# E-9 Configuration

- **The E-9s Primary Mission is Range Clearing:** Mission System Operators (MSOs) operate an airborne OCEANEYE APS-143C(V)-1, Sea Surveillance Radar (SSR) to detect and track movement (boats) in the mission area, known as the Eglin test range in the Gulf of Mexico.
  - The SSR is an airborne pulse compression surveillance radar, capable of multiple imaging and radar functions depending on the mission, weather, and other variables such as sea states.
  - Data collected relates to location, speed, and type of vessels in the mission area. Each vessel is referred to as a "track".
  - All tracked vessels are passed to a range safety officer, who identifies a safe shoot track based on what is being fired at and the missile being fired.
  - Depending on the mission and test support required, this can range from 1-20 missiles from F-15EXs, F-16s, F-22s, and F-35s, targeting sub-scale drones (SSAT) & full-scale aerial targets (FSAT).
- If a sub-scale drone is shot down and recoverable, it falls on the radar operator to use the SSR to locate the drone and provide a target talk-on to the missile retriever.
  - Each drone recovered is reused which the costs savings can range from \$750K to \$1.1M depending on what is loaded on the drone.



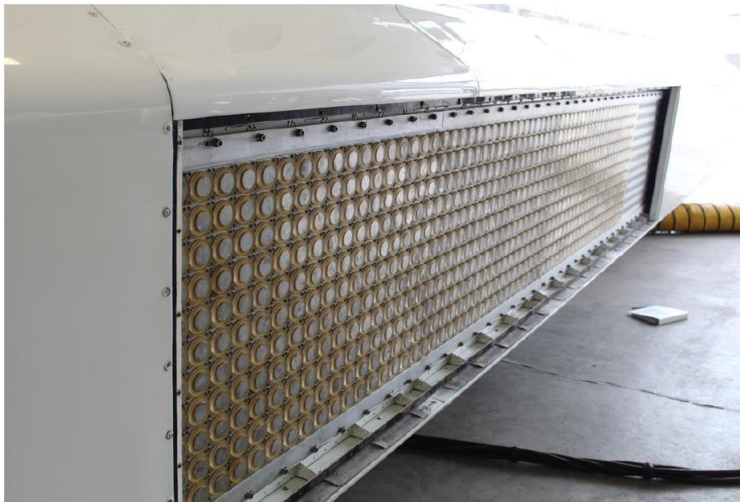


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# E-9 Configuration Telemetry



- The E-9A's secondary mission is collecting and retransmitting S-Band telemetry data.
- The system is separated into six primary areas: the Antenna Array, the Antenna Control Computer, the RF Exciter Unit, the RF Input and Exciter Output Distribution System, the Telemetry Operators Computer, and the DC Power System.
  - The E-9A features a 224 dual-channel Low Noise Block phased array antenna
  - Each E-9A contains 4 VME racks each with 56 Quad Digital Sub-Array Cards that receive IF signal and Clock signal
  - A digital beamforming card aligns the phased array inputs for the strongest signal





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# *E-9 Requirements PM Overview*



- **Performance Work Statement:**
  - Minimum requirements as outcome based
  - Offeror's propose approach/solutions
  - Must balance with military requirements and reporting
- **Configuration Management:**
  - OSS&E resides with the Government
  - Track configuration status of the E-9A aircraft (i.e., Accounting Report)
  - Configuration modification approval by PO AW Authority
  - Form, fit, function shall not be altered without prior approval of the PCO
- **Meetings**
- **Modifications:**
  - Contractor managed
  - Gov managed
- **CDRL(s) & Reports**





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# ***E-9 Requirements Logistics Overview***



- **Contractor Operated and Maintained Base Supply (COMBS)**
  - Contractor shall operate and maintain supply system for Government owned parts and support equipment
  - Contractor shall provide all supplies and storage services necessary to operate the COMBS
  - Contractor shall provide and maintain a range and quantity of both repairable and expendable items, repair parts, peculiar (special) hand tools, and SE necessary to support the performance requirements
  - Contractor shall maintain an inventory program that can be viewed by the Government for all GFP in COMBS
- **Diminishing Manufacturing Sources and Material Shortage (DMSMS) and Parts Obsolescence**
  - Contractor shall manage and propose solutions for DMSMS issues



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# E-9 Requirements Logistics Overview



## Fleet Projected Sorties and Flying Hours

Annual Totals	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31
Sorties	250	250	250	250	250	250	250	250
Flying Hours	600	600	600	600	600	600	600	600

\*Notional and subject to change, even upon contract award



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# ***E-9 Requirements Logistics Overview***



- **Government maintains FAA type certification of the aircraft utilizing FAA approved processes and parts for overhaul/repair**
- **Contractor shall complete maintenance according to Government approved maintenance program and shall follow Government regulations**
- **Contractor shall maintain capability and accomplish mission systems maintenance**



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# ***E-9 Technical Overview***



- **Maintenance and Flight Manuals**
  - **Flight Manuals are Digital and provided by the USAF**
- **Maintenance Manuals**
  - **De Havilland**
  - **Pratt and Whitney**
  - **USAF**
- **Engine Health and Trend Analysis Subscriptions**
- **EMP Equalized Maintenance Program**
- **AAMP**
  - **RAMCO (contractor provided)**
  - **CAMP (currently contractor provided, transitioning out)**
  - **G081 (mandated, transition plan in work)**





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# ***E-9 Preliminary Acquisition Overview***



- **Full and Open Competition**
  - **NAICS code 488190, size standard \$35 M**
  - **Services Contract Act**
    - **Wage determinations included in solicitation**
- **Contract Type**
  - **Firm-fixed-price**
  - **Indefinite Delivery Indefinite Quantity (IDIQ)**
  - **Work authorized on delivery orders**
  - **Commercial FAR Part 12**
- **Six-month continuation of services clause**



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# ***E-9 Preliminary Acquisition Overview***



- **Potential Period of Performance – 8 Years**
  - **Phase-in/Transition (3 months)**
    - June 2024 to September 2024 (Notional)
    - Address risk and mitigation
  - **Basic (2 years)**
    - June 2024 to June 2026 (Notional)
  - **Option (6 years) w/ 6 mos. continuation of services clause**
    - June 2026 – June 2032
      - Option 4-6 Incentive (3 years) Notional – MC Rate, and sub-systems' requirements (i.e.TM, SSR)



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# ***E-9 Preliminary Acquisition Overview***



- **Performance Price Trade-off (PPT)**
- **Evaluation Factors:**
  - **Factor 1 – Technical**
  - **Factor 2 – Past Performance**
  - **Factor 3 – Cost/Price**
- **PPT - Technical acceptability is a prerequisite to the trade-off. Its up to the SSA's decision to trade off between Past Performance and Cost/Price (AFFARS 5315.101-1)**



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# ***E-9 Preliminary Acquisition Overview***



- **Technical factors evaluated as pass/fail**
  - Additional credit will not be given to proposals exceeding requirements
- **Past performance evaluated and assigned a performance confidence rating**
- **Cost will be evaluated for reasonableness**
- **Past performance and cost are approximately equal**
- **Contractor statement of work is not required**
  - PWS will be incorporated into the contract
- **Small business subcontracting plan required**
  - Submitted with proposal and evaluated as pass/fail



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# ***E-9 Preliminary Acquisition Overview***



- **Notable Clauses**
  - **FAR 52.222-41 Service Contract Labor Standards**
  - **FAR 52.227-14 Rights in Data -- General**
  - **FAR 52.245-1 Government Property**
  - **DFARS 252.217-7028 Over and Above Work**
  - **DFARS 252.225-7008 Restriction on Acquisition of Specialty Metals**
  - **DFARS 252.228-7001 Ground and Flight Risk**
  - **DFARS 252.227-7013 Right in Technical Data**



# *E-9 Preliminary CLIN Structure (FFP)*



CLINs	CLIN Description
CLIN 001	Transition Phase-In
CLIN 002	Base Operations
CLIN A003	COMBS
CLIN A004	Recurring EN and Tech services
CLIN A005	Flying Hours
CLIN A006	Depot level maintenance
CLIN A006AA	Engine Hot Section Inspection
CLIN A006AB	Propeller Overhaul Inspection
CLIN A006AC	Landing Gear Overhaul Inspection;Nose
CLIN A006AD	Landing Gear Inspections -Main
CLIN A006AE	Strip & Paint



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# E-9 Preliminary CLIN Structure



CLIN A007	O&A
CLIN A007AA	O&A Labor Rate
CLIN A0007AB	O&A Labor Rate OT
CLIN A007AC	O&A Parts and Materials
CLIN A008	Travel
CLIN A009	Search & Rescue
CLIN A010	Engineering Services
CLIN A011AA	AD/SB Sustainment Labor - Straight Time Maintenance
CLIN A011AB	AD/SB Sustainment Labor Overtime
CLIN A011AC	AD/SB Sustainment Parts and Material
CLIN A015	Facility and Equipment
CLIN A016	Tech Data
CLIN A017	Spares
CLIN A018	Wage Determination Adjust



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# *Notional Preliminary Milestones*

- 
- |                                    |        |
|------------------------------------|--------|
| • Release Formal RFP               | May 23 |
| • Receive Proposals                | Jul 23 |
| • Contract Award                   | May 24 |
| • Phase-in/Transition (3 months)   | Jun 24 |
| • Full contract performance begins | Oct 24 |





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# Questions