

FQ&P Aviation LLC
Charles H. Bowser
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December 18, 2013

Dear Contracting Officer:

At this time, our firm has been placed on SAM.gov. We had our company information moved over to SAM.GOV from CCR.GOV. We are very interested letting your office know of our existence so that you can consider us for small contracts or a subcontract relationship with one of your contractors.

Below you will see our company's capability statement.

Our firm is a small minority-owned business specializing in aerospace engineering. We specialize in the areas of aircraft flight test planning in the areas flying qualities and performance, including conduct and analysis, and flight test safety evaluations. Our president and chief engineer has a mechanical engineering graduate from the University of Illinois (1965) and is a U.S. Naval Test Pilot graduate (Class 52, circa 1969). Our company company's website is www.FQandPAviation.com. Mr. Bowser's resume is presented at <http://www.fqandpaviation.com/capabilities/previous-engineering-engagements/>. Flight test reports authored by me are also included with my resume.

We can help you attain your contracting planned goals required by Public Law 95-507 because we are a small minority-owned business.

Our DUNS number is 176972524, Cage Code is 53X63, and our primary NAICS codes are 541330, 541690, and 541712. Our secondary NAICS codes are 336411, 481219, 541922, 611512 and 611519. Our SIC code is 3728. FSC/PSC- AC 11 to 16, AC 21 to 26, AR 11 to 16, AR 21 to 26, AR 31 to 36, T009, T015, U004, U006, and U008.

We would appreciate your office sending me the proper forms, websites and instruction necessary to place our firm on your prospective contractor or subcontractor bidders list. Also, please send me the following information, if available: Workload Projection, List of current subcontractors, specific points of contact for our services, and any additional publications which you feel are helpful for in the flight test and evaluation project areas.

Thank you.

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An Aerospace Engineering Firm specializing in Flight Training, Aerospace Vehicle Stability, Control and Performance; Research, Development, Test and Evaluation

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Company Capabilities

FQ&P Aviation LLC is a small business specializing in aerospace engineering in the areas of flight test planning, test and evaluation, and flight test safety evaluations

Test and Evaluation:

Pitot/Static System Test and Calibration

Sea level and altitude calibration of aircraft pitot/static noseboom and production systems including upwash determination of angle of attack. Total temperature probe calibration.

Installed Jet Engine Thrust Stand Calibration

Measure installed engine gross thrust for use in determining aircraft performance parameters for a test aircraft.

Weight and Balance Determination

Measure aircraft weight and balance to determine aircraft test weight and center of gravity location.

Flight Control System Evaluation

Evaluate flight control system characteristics for the intended mission. Also evaluate flight control system changes with respect to modifications to the original flight control system.

Flying Qualities Evaluations

Test and evaluate the longitudinal and lateral-directional flying qualities, both static and dynamic, of a test airplane. Flying qualities data compared with MIL-F8785C or MIL-STD 1797B. Handling qualities during tracking (HQDT) evaluations of fighter aircraft. Determine aircraft stability derivatives utilizing the latest techniques, i.e., Modified Maximum Likelihood Estimation (MMLE) Program.

Performance Evaluations

Determination of level flight maximum speed, cruise performance including maximum range and maximum endurance with respect to external aircraft configuration. Also determine take-off speeds (V_x and V_y), V_1 and V_2 . In addition, determine approach speeds, take-off and landing distances. In addition, determination of climb and descent performance, turning performance, roll performance, etc.

Structural Evaluations

Determine compliance with the airspeed/normal acceleration (v-n) diagram as per detailed specification, including structural demonstrations requirements, i.e., MIL-D-8708C).

Flight Test Instrumentation

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Fully instrument a test aircraft for ground and inflight test evaluations, static and dynamic, performance as well as flutter modes.

Stall/Spin Evaluations

Evaluate airplane stall and spin characteristics including post stall gyrations, spin entry, spin modes, and spin recovery techniques, including spin demonstration requirements.

FAR Part 23 and Part 25 Flight Test Requirements

Part 23, Part B (for aircraft that weigh less than 12,500 lb) Performance, Flight Characteristics, Controllability and Maneuverability, Trim, Stability, Stalls, Spinning, Ground Handling, Miscellaneous Flight Requirements (Vibration and Buffeting), (High Speed Characteristics), and (Out of Trim Characteristics).

Part 25, Part B (For aircraft that weigh over 12,500 lb) Performance, Flight Characteristics, Controllability and Maneuverability, Trim, Stability, Stalls, Spinning, Ground Handling, Miscellaneous Flight Requirements (Vibration and Buffeting), (High Speed Characteristics), and (Out of Trim Characteristics).

Inflight Icing and its effect on Aircraft Flying Qualities

Icing Meteorology, How to Find and Avoid Icing, Ice Shape Formulations, Iced-Airfoil Aerodynamics, Icing Effects on Aircraft & Stability & Control, Icing Effects on Aircraft Handling, Icing Testing, Certification for Flight in Icing, and Stability and Control Aspects of Aircraft Icing.

Aviation Human Factors

Systems approach, SHEL Model, Human Systems, Information Processing, Errors, Fatigue and Body Rhythms, Workload, Group Interaction & Crew Performance, Control, Displays, Cockpit Automation, Control Design & Integration, Airline Pilot's Perspective, General Aviation, Helicopter Human Factors, Air Traffic Control, Human Factors Evaluation Methods, Human Performance Technology, System Safety (Flight Test Perspectives), Head Up Displays, Enhanced Vision Systems, and Synthetic Vision Systems.