

NND15536248Q

Attachment A:

## **STATEMENT OF WORK**

### **Overhaul of the Landing Gear Wheels and Tires** Indefinite delivery, indefinite quantity (IDIQ) contract

---

**Date: MAY 20, 2015**



National Aeronautics and Space Administration  
Armstrong Flight Research Center  
Edwards, California

---

## Table of Contents

1.0	<a href="#">Background</a>	1
2.0	<a href="#">Objectives</a>	1
3.0	<a href="#">Scope</a>	2
4.0	<a href="#">Task</a>	2
5.0	<a href="#">Deliverables</a>	3
6.0	<a href="#">Performance / Qualifications</a>	4
7.0	<a href="#">Quality Requirements</a>	6
8.0	<a href="#">Period of performance</a>	11
9.0	<a href="#">Appendix</a>	12

### 1.0 Background

The National Aeronautics and Space Administration (NASA) at the Armstrong Flight Research Center (AFRC) facilities in California; operates multiple aircraft research and platform aircraft. In order to ensure that that our fleet maintain a good airborne status. NASA has a requirement for the servicing and overhaul of the landing gear wheels and tires for all the different AFRC own aircrafts. These facilities and aircrafts are located at Edwards AFB CA. and Palmdale CA.

#### 1.1 Aircraft Information:

- 1.1.1 Boeing DC-8-72 Serial Number 46082
- 1.1.2 Gulfstream G-III Serial Number 389
- 1.1.3 Gulfstream G-III Serial Number 344
- 1.1.4 Boeing 747-SP Serial Number 21441
- 1.1.5 Gulfstream G-II Serial Number 244
- 1.1.6 Beechcraft King Air B-200 Serial Number 000997
- 1.1.7 Beechcraft King Air B-200 Serial Number 001164
- 1.1.8 Global Hawk
- 1.1.9 ER-2/U-2

### 2.0 Objectives

- 2.1 NASA requires the services for the landing gear wheels and tires overhaul for the diverse AFRC owns aircrafts. These overhauls shall include all necessary inspections, repairs and certifications required to make the wheel assembly airworthiness. In order to perform this service the contractor shall be an FAA 145 repair station.
- 2.2 NASA intends that all components specified in the Schedule of Supplies and Services will be returned from overhaul within the firm-fixed prices established in the resulting contract.
- 2.3 However, the firm -fixed price established at award does not include “Unusually Damaged components”. “Unusually Damaged” are components severely damaged due to obvious

abuse/misuse, crash damage or cannibalization. Components meeting one or more of these criteria may be considered as “Unusually Damaged”. All other components shall be overhauled in accordance with the firm -fixed prices accepted at contract award.

### 3. Scope

- 3.1 The contactor shall provide all labor, tooling, test equipment and facility, necessary to complete the overhaul process at the firm-fixed prices listed in the schedule named Attachment: B Schedule of Supplies and Services.
- 3.2 The contractor shall pick up the landing gear wheels and tires from the designated pick up location indicated in attachment C: Schedule of supplies and services.
- 3.3 The contractor shall deliver the landing gear wheels and tires from the designated pick up location indicated in attachment C: Schedule of supplies and services.
- 3.4 The contractor shall also perform any required repairs as define by the appropriate Technical Order (TO) and replace conditional parts that fail inspection in accordance with the applicable TO.
- 3.5 The contactor shall provide all materials necessary to complete the overall process at the firm-fixed prices and if applicable an economic price adjustment will be applied accordingly.
- 3.6 The Government shall not be liable for any amount expended by the contractor in excess of the applicable firm fixed price reflected in the schedule, unless prior written authorization has been given by the Contracting Officer.
- 3.7 Requests for Government Furnished Material (GFM): Requests for GFM will be reviewed by the Government and a determination will be made to either furnish the requested material and adjust the monetary value of the Purchase Order as applicable or deny the request.

3.7.1 Requests for GFM shall be submitted in writing to the Contracting Officer with a brief narrative that supports the request.

#### 3.8 Aircraft on Ground (AOG) and Work Stop (WS) Requirements:

3.8.1 An AOG or WS situation necessitates a special schedule and requires accelerated overhaul completion and expedited delivery to the applicable NASA location. In the event that an AOG/WS status occurs as a result of a lack of any of the components specified in the schedule, the Contractor will be notified by the Government in writing of the AOG/WS situation. The Contractor's response shall provide the following.

3.8.1.1 Status of the component(s) needed to satisfy the AOG/WS condition that includes what NASA items in-house for repair/overhaul are closest to completion under normal working conditions.

3.8.1.2 An estimate of the labor hours needed to accelerate work completion. The accelerated work will be authorized via a Purchase Order Modification in

conjunction with mutually agreed upon prices, delivery, and shipping for next day delivery to the applicable NASA facility.

#### **4.0 Task**

4.1 Corrosion Inspection: NASA aircrafts mission include operating around salt water, at low altitude, and are subject to corrosion. Corrosion should be expected on NASA components and does not constitute unusual damage.

4.1.1 Should corrosion be found during initial inspection and functional testing, disassembly shall be made to the extent necessary to remove all corrosion or replace the part or parts affected.

4.1.2 Corroded parts shall be replaced, except in those cases where removal of corrosion from parts will not impair efficiency or safe operation of the part.

4.1.3 Corrosion removal and treatment of affected areas shall be accomplished in accordance with the NASA TO or best commercial practices if not addressed by the NASA TO.

4.2 Removal and Treatment:

4.2.1 Corrosion removal and treatment of affected areas shall be accomplished in accordance with the TO specifications, or shall meet the Contracting Officer's approval when specifications do not exist or are not clear.

4.3 Paint: Repaint white

4.4 Cannibalized Units: Firm-fixed prices proposed in Attachment B: Schedule of Supplies/Services shall not include repairable parts, which have been cannibalized from the unit being overhauled.

4.4.1 These components shall be evaluated at the firm-fixed-price evaluation fee specified in attachment B: Schedule of Supplies/Services.

4.4.2 In the event any of the components listed in the attachment B: Schedule of Supplies/Services are received in a condition that represents cannibalization, immediate notification to the Contracting Officer is required.

4.4.2 This notification shall include a detailed description of the noted deficiencies and shall reference the purchase order number, national stock number, part number, and serial number and is subject to the discretion of the Contracting Officer. Items covered in the contract that are received missing consumable components are not considered to be cannibalized.

#### **5.0 Deliverables**

5.1 Listed in Attachment "B" Schedule of Supplies and services

5.2 All parts modified under the provisions of this contract must be airworthy and suitable for installation on NASA aircrafts.

5.2.1 Each returned component shall be tagged with a DD Form 1574 Serviceable Condition Code Tag or a FAA Form 8130-3, Airworthiness Approval Tag, completed in its entirety.

5.2.2 The contractor shall furnish a Certificate of Airworthiness in accordance with FAA procedures (or NASA approved alternate procedure) and a Certificate of Conformance (COC) IAW FAR 52.246-15 for all components.

5.2.3 These forms shall be packaged with each component. Provide the implementation status of each applicable FAA airworthiness Directive and manufacturer's Service Bulletin. Identify the Technical Standard Order Authorization (TSO), Manufacture authorized to make item.

## **6.0 Performance / Qualifications**

6.1 The contractor shall perform all modifications IAW applicable Component Maintenance Manuals (CMMs), other specifications in lieu of an applicable CMM, and/or applicable acceptance criteria.

6.1.1 The NASA Contracting Officer must approve any proposed deviations.

6.2 Except for ER-2/U2, the contractor must have access to required CMMs, specifications and/or acceptance criteria and any other required data to ensure all components are modified IAW current specifications and procedures. NASA may review manuals and performance acceptance criteria as required. Original design or functional capabilities of the end item and parts thereof shall not be changed unless authorized or directed by the requirements of this SOW.

6.2.1 NASA will supply all ER-2/U2 technical data, as required.

6.3 The Contractor shall have access to all applicable documents and obtain current editions of all applicable documents. Neither the closing date for receipt of offers nor contract award will be delayed pending receipt of these documents for any offeror.

6.4 The contractor is required to be certified and maintain a quality system that complies with the requirements of ISO 9001-2000 Quality Management Systems – Requirements, AS9100, or equivalent.

6.4.1 The contractor is responsible for performing or assuring all modifications necessary to substantiate that the goods or services furnished conform to Government's requirements.

6.4.2 The contractor shall take prompt action to correct conditions that have or could result in goods or services that do not conform to contractual requirements.

6.4.3 Records of conformance shall be maintained on file at the contractor's facility and made available or provided for review by the Government upon request.

6.4.4 The Government reserves the right to conduct surveillance at contractor's facility to verify the existence, adequacy and effectiveness of the quality system.

6.4.5 Upon request of the Government, the contractor(s) shall forward a copy of their current certification and Quality Assurance Manual for review

6.5 The contractor shall maintain, at a minimum, one of the following:

6.4.1 FAA, European Aviation Safety Agency (EASA)

6.4.2 Department of Defense (DOD), OEM

6.4.3 Industry Standard Certification

6.4.3.1 (National Aerospace and Defense Contractors Accreditation Program (NADCAP))

6.4.3.2 USCG certifications for repair of components identified in the Schedule for the entire duration of this Purchase Order.

6.6 The Contractor shall provide immediate notification to the Contracting Officer upon loss of any required certifications. The contractor shall also:

6.6.1 Comply with the certification/documentation requirements specified herein.

6.6.2 Attach certifications/documentation to the outside of the shipping container.

6.7 Unusual Damage

6.7.1 Reporting Requirements:

6.7.1.1 When a component is processed for unusual damage evaluation, the contractor shall within 5 calendar days of receipt of the item, submit an inspection condition report explaining the rationale for the pricing exclusion, including photographic evidence as necessary.

6.7.1.2 The report shall also include a price proposal, covering all parts for needed to return the unit to serviceable condition that meets all applicable OEM or TO specifications.

6.7.1.3 The report shall contain the purchase order number, line item number, national stock number (NSN), part number (PN), nomenclature, and serial number of the component, a listing of the material required, the time needed to complete the work, and a cost breakdown including the cost of each required part and the number of labor hours.

6.8 The contractor's delivery obligation shall stop from the date of notification that an item has been determined to be a candidate for "Unusual Damage Evaluation."

6.8.1 The delivery obligation will be specified in the purchase order modification and will apply only to those items specifically addressed by the modification.

6.8.2 The contractor is obligated to deliver all other components not individually addressed by the modification under the original delivery date specified on the purchase order.

6.8.3 The report shall not include the work involved in the teardown and inspection, which will have already occurred, as this is covered by the firm-fixed price specified in attachment B: Schedule of Supplies/Services.

6.8.4 Within 30 calendar days, the Contracting Officer shall either initiate negotiation for a firm-fixed price with the contractor or denies authorization for the work based on information in the report and any other information, which may be available.

6.8.5 Upon mutual agreement as to price and delivery, a modification will be issued with the agreed upon terms.

6.8.6 If work is not desired, the Contracting Officer will provide the contractor with disposition instructions for the item in question. In the event an item is returned to the Government in a disassembled condition, the contractor shall be entitled only to appropriate compensation for inspection as specified in attachment B: Schedule of Supplies/Services.

#### 6.9 Environmental Requirements.

6.9.1 All parts must be thoroughly cleaned in accordance with applicable Component Maintenance Manuals or FAA Advisory Circular 43-205, Guidance for Selecting Chemical Agents and Processes for paint stripping and General Cleaning of Aircraft and Aviation Products, to ensure they are as free as practicable of all hazardous dust to include hexavalent chromium, cadmium, lead, etc.,

6.9.2 Prior to being returned to ALC. ALC may take random samples of parts to ensure they are free as practicable of all hazards. Information on these hazards can be found in Occupational Safety and Health Standards 1910.1025 (lead), 1910.1026 (Hexavalent Chromium) and 1910.1027 (Cadmium).

### 7.0 Quality Requirements

7.1 NASA considers components ready for issue (RFI) upon acceptance.

7.1.1 Components determined to be non-RFI upon installation may be returned to the contractor with deficiencies described in a Non-Conformance Report.

7.1.2 Procurement quality requirements, Attachment C: Q-1 Section A: Aircraft Assemblies, Parts and Materials

7.2 Serviceable Parts and Replacement Parts:

7.2.1 Parts of a component found to be in a serviceable condition as a result of inspection and functional testing shall be reused.

7.2.2 Missing parts or parts found to be defective shall be replaced with new parts that meet the current specifications and drawings.

7.2.3 Only new replacement parts, traceable to the OEM, are acceptable for use for this requirement.

7.3 Data Delivery Package

7.3.1 Turnaround Time and Delivery Time: The required turn-around-time is ten (10) days after receipt of material (ARM). Earlier delivery is desired if there are no extra charges to the Government.

7.3.2 In the event of an AOG/WS situation, the Purchase Order and applicable Line Item Number will be modified as needed to reflect the NASA delivery address and the applicable NASA Requisition Number. The Contractor shall be required to ensure the Requisition Number is included on shipping documents/delivery tickets so that the Material Receipt can be processed by the applicable NASA receiving personnel.

7.3.3 Deliveries or Performance: F.O.B. Destination is requested as the F.O.B. point for all deliverables. All offers will be considered F.O.B. Destination unless F.O.B. origin is specified and estimated shipping costs are included.

**8.0 Period of Performance**

8.1 The period of performance of this contract is five years. Starts from contract award, Base year and four option years.

Option 1: year 2016

Option 2: year 2017

Option 3: year 2018

Option 4: year 2019

**9.0 Appendix**

None

**REVISIONS**

<b>Revision Number</b>	<b>Date</b>	<b>Brief Summary of Changes</b>
Base	May 20, 2015	
1	July 24, 2015	Added Section 3.2 and 3.3.
2		
3		
4		
5		
6		
7		
8		