

ATTACHMENT 1

STATEMENT OF WORK

HELICOPTER MAINTENANCE, ENGINEERING AND REPAIR SERVICES

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1.0 SCOPE OF WORK

- 1.1 The Los Angeles County (County) Sheriff's Department (Department) is seeking Qualified Contractors that can provide helicopter maintenance, engineering and repair services (Services) on an as-needed basis. Contractor must provide all necessary labor, tools, equipment, raw material, supplies, and/or Services necessary to maintain, repair, overhaul, refurbish, and/or modify the existing fleet of Department helicopters and their components, as well as any future additions to the Department's fleet. Contractor must provide Services for major repairs, including, but not limited to, scheduled overhauls of dynamic components, engines and engine accessories, engineering support, structural airframe repairs, as well as various non-critical component repairs.
- 1.2 Contractor must be certified, licensed, qualified, and capable of performing all Work requirements specified in Paragraph 3.0 (Specific Work Requirements) below.
- 1.3 No Work will be performed under the Master Agreement except in accordance with a fully executed Work Order issued pursuant to Paragraph 3.0 (Work) to the Master Agreement.
- 1.4 Contractor's Services will supplement work performed by the Department's Aero Bureau, located at 3235 North Lakewood Boulevard, Long Beach, CA 90808.
- 1.5 The execution of a Master Agreement does not guarantee Contractor any minimum amount of Work. The determination as to the need for Services will rest solely within the discretion of the Department.
- 1.6 All Work listed in this document pertains only to the following Airbus Helicopters Inc. (formerly American Eurocopter Corporation) aircraft models:
 - **SERVICE CLASS I – AIRBUS AS332 and H225 SERIES**
 - **SERVICE CLASS II – AIRBUS AS350 SERIES**

2.0 WORK ORDER PROCESS

The County's procedures for issuing Work Orders to qualified Contractors are set forth in Paragraph 3.0 (Work) to the Master Agreement.

3.0 SPECIFIC WORK REQUIREMENTS

3.1 SERVICE TYPE 1 – Critical Component Services

3.1.1 Dynamic Component Repair and Overhaul, Rotor Blade Repair, Replacement, Overhaul and Balancing

Contractor must provide, on an as-needed basis, all parts, labor, and incidental materials necessary to perform repairs or overhauls to Department helicopters, including, but not limited to, the following:

- a) Main Gear Box (Transmission) and Related Components - Overhaul, minor and major repair, and parts replacement, as required.
- b) Tail Rotor Gear Box and Related Components - Overhaul, minor and major repair, and parts replacement, as required.
- c) Tail Rotor Driveshaft and Related Components - Overhaul, minor and major repair, and parts replacement, as required.
- d) Main Rotor Head and Related Components - Overhaul, minor and major repair, parts replacement as required.
- e) Tail Rotor Head and Related Components - Overhaul, minor and major repair, and parts replacement, as required.
- f) Main Rotor Blades - Overhaul, minor and major repair, balancing, and replacement, as required.
- g) Tail Rotor Blades - Overhaul, minor and major repair, balancing, and replacement, as required.
- h) Specialized Services - Including, but not limited to, non-destructive testing and technical engineering support.

3.1.2 Powerplant Repair and Overhaul

Contractor must provide, on an as-needed basis, all parts, labor, and incidental materials necessary to perform scheduled and unscheduled repairs and overhauls to the Turbomeca Arriel and Makila turbine engines installed on Department helicopters, including, but not limited to, the following:

- a) Scheduled/Non-Scheduled Engine Overhaul - Repair/replace engine components at prescribed engine time-life.
- b) Scheduled/Non-Scheduled Engine Mid-life Inspections and/or Overhaul - Inspect and repair/replace engine components at prescribed engine time-life.
- c) Compressor Section - Inspect and repair/overhaul internal components.
- d) Accessory Gear Box - Inspect and repair/overhaul internal and external components.
- e) Turbine/Modular Section - Inspect and repair/overhaul internal components including the repair and replacement of power turbine wheels, nozzles, and all other related turbine section components.
- f) Combustion Section - Inspect, repair, overhaul, and replace all internal and external component items.
- g) Engine Accessories - Inspect, test/repair, replace, and/or overhaul engine accessories including, but not limited to, fuel controls, fuel nozzles, governors, bleed valves, and related components.
- h) Quality Assurance - Contractor may be required to conduct a teardown inspection of the turbine engines to determine the extent of repairs necessary and provide an accurate cost estimate. After the repairs have been completed, Contractor must perform a quality assurance inspection to ensure all Work has been performed in accordance with factory prescribed maintenance procedures. Contractor must provide written documentation certifying the Work performed.
- i) Warranty - All engine, powerplant, and related components must be inspected, repaired, replaced or overhauled to manufacturer's specifications and warrantied against defects resulting from Services rendered for a period of at least 180 Days or 300 flight hours after installation, whichever occurs first, unless otherwise warrantied by parts supplier.

- j) Performance Assurance - Contractor must provide performance assurance on all turbine overhauls equal to or greater than five percent above minimum factory engine power specification requirements.

3.1.3 Airframe Inspection and/or Repairs

Contractor must provide, on an as-needed basis, all parts, labor, and incidental materials necessary to perform scheduled and unscheduled structural airframe inspections and/or repairs, including, but not limited to, the following:

- a) Airframe Sheet Metal and Composite Surface Repairs - Structural repairs involving sheet metal and composite materials Work to the basic airframe, landing gears, cowlings, doors, and all internal cabin metal surfaces, structures, and instrument panels, including aircraft painting and exterior finishes.
- b) Aircraft Hydraulic, Electrical, Lubrication, Fuel Systems and Components - System testing, repairs, overhaul, and component replacement.
- c) Landing Gears - Repair, overhaul, and component replacement of landing gears, skids, cross tubes, struts, shock absorbers, wheels, brakes, and all other related components.
- d) Flight Control Systems - Repair, replace, overhaul, and return to service all flight control system components, including but not limited to, cables, control tubes, control rods, bell cranks, support assemblies, and related fittings, hydraulics, and electronic or electrical components.
- e) Airframe Inspections - Perform scheduled airframe phase inspections in accordance with manufacturer specifications.

3.1.4 Avionics and Navigation Systems

Contractor must provide, on an as-needed basis, all parts, labor, and incidental materials necessary to perform needed repairs, component replacement, and overhaul of all avionics and navigation equipment installed on Department helicopters.

Work may be performed by Contractor at the Department's Aero Bureau facility.

3.2 SERVICE TYPE 2 – Non-Critical Component Services

- 3.2.1 Non-critical Services and repairs, as defined by the Department, are those Services which do not directly affect the flight and operations of the helicopter.
- 3.2.2 Contractor must provide, on an as-needed basis, all parts, labor, and incidental materials necessary to perform needed repairs, component replacement, and overhaul Services on, but not limited to, the following:
 - a) Night vision lighting/alternate lighting,
 - b) Search light(s),
 - c) Thermal imagers and video cameras,
 - d) Overlay panel,
 - e) Moving map,
 - f) Communication radios,
 - g) Public announcement and siren system,
 - h) Medical interior modules and related equipment,
 - i) Aircraft hoist and/or external cargo hook,
 - j) Air conditioning systems and instruments,
 - k) Aircraft interiors - Repairs and/or replacement of all aircraft components and accessories including seats, upholstery, paneling, floors and surfaces, environmental systems, and components, including aircraft painting and interior finishes,
 - l) Aircraft washing, detailing, and cleaning (interior and exterior), and

- m) All other non-critical special-mission equipment installed on existing Department helicopters.

3.3 SERVICE TYPE 3 – Completion Services

- 3.3.1 Completion Services are defined as the furnishing, engineering, and/or installation of avionics, communications, and law enforcement equipment within a new or used, unequipped or minimally equipped, helicopter acquired by the Department.
- 3.3.2 Contractor or their authorized subcontractor must provide, on an as-needed basis all parts, labor, and incidental material necessary to perform required Completion Services.
- 3.3.3 All Completion Services must be performed at one of the following:
 - Contractor’s certified repair station approved by the Federal Aviation Administration (FAA) under Federal Aviation Regulation 14 C.F.R Part 145,
 - Certified Approved Maintenance Organization (AMO) approved by Transport Canada under Canadian Aviation Regulation, Part V, subpart 7, or
 - At a facility approved by the Department.
- 3.3.4 All aircraft will be delivered to Contractor and returned to the Department by Aero Bureau Staff.

4.0 PARTS AND MATERIALS REQUIREMENTS

For each Service Class and Service Type defined above, the following will apply:

4.1 Parts Procurement, Engineering, Technical Assistance and Product Support

Contractor must provide, on an as-needed basis, selected manufacturer-approved repair parts, aircraft components (new and/or overhauled), engineering and technical assistance and product support necessary for Department employees to perform maintenance inspections, repairs and/or component overhaul/replacement for the Department’s helicopters, including, but not limited to:

- a) Repair Parts Procurement - Contractor must provide factory-approved new or certified replacement aircraft parts obtained directly from the

Original Equipment Manufacturer (OEM) or an authorized parts distributor and/or vendor authorized by the OEM to manufacture and sell duplicate parts under Parts Manufacturer Approval (PMA). Contractors must additionally certify that all parts sold to the County meet aircraft airworthiness and safety standards as established by Federal Aviation Regulations and/or aircraft manufacturer.

b) Engineering and Technical Assistance - Contractor must provide engineering and technical assistance for specific projects associated with aircraft modifications, maintenance programs and/or Type Certification or Supplemental Type Certification requiring FAA approval or compliance with technical specifications as specified by the aircraft manufacturer and/or FAA.

c) Product Support - Contractor must provide required product support through resources such as the research and development of special parts, tools and/or modifications needed to support the Department's helicopters. If special parts cannot be obtained from the aircraft manufacturer in order to perform the Work, Contractor must design, engineer, manufacture and/or arrange approval of special parts and/or tooling needed. Contractor must obtain approval from the FAA, the aircraft manufacturer or an aircraft airworthiness authority.

4.2 Upon request, Contractor must provide such aircraft repair parts and/or components to the Department on a rental basis. Rentals will be on a fixed price/not-to-exceed-cost as referenced in Exhibit 11 [Price Sheet (Parts, Components, and/or Raw Materials)] of the Required Forms.

4.3 All aircraft repair parts and/or components must be delivered to the Department's Aero Bureau.

4.4. Materials and Supplies

The Master Agreement is intended to acquire and purchase aircraft parts, materials, and supplies incidental to the required repair Work and/or Services. The Department reserves the right to provide Contractor with after-market, serviceable components in either new or certified overhauled condition, whenever possible, in an effort to mitigate repair costs.

4.5. Material Standards

When an article is mentioned by trade name or a manufacturer's name, it is intended to establish a standard of merit. Articles from other manufacturers may be used provided they are of the same type and of

equal quality. The Department will be the sole judge as to “equal.” All materials and equipment must be new, or certified overhauled and installed as recommended by the manufacturer. All materials and equipment must be properly tested, regulated, adjusted, and placed in proper operating condition before the Work can be accepted by the County.

5.0 ACCEPTABILITY OF WORK/DELIVERY

All Work must be completed within the time frame set forth on the Work Order for the specific job. All Work must be done in a professional manner and must be acceptable to technically qualified Department personnel.

6.0 DISCREPANCIES

If the Department determines that Work is not complete or not performed to standard, County Project Manager will notify Contractor in writing or by telephone and request a meeting to resolve the discrepancy. Representatives of the Department and Contractor must meet at Aero Bureau facility within ten Days of the date of notification by the Department. Contractor will not be paid for Work until such discrepancy is resolved.

7.0 CONTRACTOR’S RESPONSIBILITIES

7.1 All damages incurred to the Department’s aircraft by Contractor must be repaired or replaced at Contractor’s expense.

7.2 If Contractor fails to repair or replace damaged property, the Department will deduct the cost of repairs for such damages, as determined by the Department, from existing unpaid invoices due to Contractor, from future invoices submitted by Contractor, or bill Contractor and the provisions of Paragraph 8.15 (Damage to County Facilities, Buildings or Grounds) of the Master Agreement will apply.

7.3 Upon completion of Work, Contractor must remove remaining excess materials from the aircraft or components. Any dirt or stains caused by the Work performed must be cleaned and removed.

8.0 GUARANTEE

8.1 Contractor must guarantee all materials and workmanship for a period of 180 Days from the Date of Acceptance of Work by the Department or 300 flight hours after installation (whichever occurs first) unless otherwise agreed to in writing by Contractor and County Project Manager.

8.2 Date of Acceptance is defined as the date County Project Manager signs off that Work was accepted.

8.3 If Contractor fails to make proper repairs under this guarantee, the Department may, at its discretion: a) deduct the cost of repairs, as determined by the Department, from existing unpaid invoices due to Contractor, b) deduct the cost of repairs from future invoices submitted by Contractor, or c) bill Contractor for the cost of repairs.

9.0 MEETINGS

At various times throughout the Term of the Master Agreement, Contractor may be required to meet with the Department. The purpose of these meetings will be to discuss and resolve problems, and/or readjust assignments and working schedules to meet the Department's needs. Contractor will be given written notice seven Days prior to the meeting as to the date, time, and location of the meeting.

10.0 QUALITY ASSURANCE

10.1 Contractor's quality control supervisor or authorized representative must inspect the completed Work and determine whether the Work has been completed in accordance with manufacturer's specifications. All Work must be completed in accordance with accepted practices, safety standards, and Federal Aviation Regulations. All Work documents must be signed by the quality control supervisor or authorized representative verifying that the Work meets appropriate airworthiness standards, and the aircraft has been returned to airworthy condition.

10.2 Contractor must correct defective materials or workmanship prior to payment by the Department for Work performed.

10.3 The Department reserves the right to conduct defect inspections at Contractor's facility.