APPENDIX A

STATEMENT OF WORK

Sheriff's Helicopter Maintenance, Engineering and Repair Services

STATEMENT OF WORK

SCOPE

Eligible Vendors will be required by the Sheriff's Department to maintain, repair, overhaul, refurbish, and/or modify the existing fleet of Departmental helicopters and their components, any future helicopters of like model that the Department may acquire, or surplus components for the above helicopters acquired by the Sheriff. Eligible Vendors will provide services for major repairs, including but not limited to: scheduled overhauls of dynamic components, engines and engine accessories, engineering support, structural airframe repairs, and various non-critical component repairs.

All work listed in this document pertains only to the Eurocopter AS350B2 and Sikorsky H-3 helicopter, and/or any civilian variant of the H-3 helicopter owned and operated by the County of Los Angeles, and/or any components for the above aircraft that have been acquired after-market by the Sheriff intended for use on any AS350B2 or H-3 aircraft.

SERVICE CLASS I – SIKORSKY H-3 SERVICE CLASS II – EUROCOPTER AS350B2

I. SERVICE TYPE 1 – Critical Component Services (Items A through D)

A. <u>Dynamic Component Repair and Overhaul, Rotor Blade Repair,</u> <u>Replacement, Overhaul and Balancing</u>

Contractor or their authorized Sub-Contractor, shall furnish to Sheriff's Department on an as-needed, intermittent, and temporary basis all parts, labor, and incidental materials necessary to perform repair or overhauls to Sheriff's Department aircraft as described above, with exceptions noted. All aircraft components shall be delivered to the vendor and returned to the point of origination upon completion of the job at County's expense. Examples of the repair, overhaul or parts replacement work to be performed consist of, but are not limited to, the following:

- Main Gear Box (Transmission) and related Components -Overhaul, minor and major repair, parts replacement as required.
- 2. <u>Tail Rotor Gear Box and Related Components</u> Overhaul, minor and major repair, parts replacement as required.
- 3. <u>Tail Rotor Driveshaft and Related Components</u> Overhaul, minor and major repair, parts replacement as required.

- 4. <u>Main Rotor Head and Related Components</u> Overhaul, minor and major repairs, parts replacement as required.
- 5. <u>Tail Rotor Head and Related Components</u> Overhaul, minor and major repairs, parts replacement as required.
- 6. <u>Main Rotor Blades</u> Overhaul, minor and major repairs, balancing, replacement as required.
- 7. <u>Tail Rotor Blades</u> Overhaul, minor and major repairs, balancing, replacement as required.
- 8. <u>Specialized Services</u> such as Non-Destructive Testing and Technical Engineering support.

B. Powerplant Repair and Overhaul

Contractor or their authorized sub-Contractor, shall furnish to the Sheriff's Department on an as-needed, intermittent, and temporary basis all parts, labor, and incidental materials necessary to perform scheduled and unscheduled repairs and overhauls to the Turbomeca, Arriel 1D1 and General Electric T-58 series turbine engines installed on the AS350B2 and H-3 helicopters. All engines and related components shall be delivered to the Contractor and returned to the Sheriff's Department Aero Bureau located at 3235 Lakewood Boulevard, Long Beach, CA, 90808 at County's expense. Examples of work to be performed consist of, but are not limited to, the following:

- 1. <u>Scheduled / Non-scheduled Engine Overhaul</u> Repair/replace engine components at prescribed engine time-life.
- Scheduled / Non-scheduled engine mid-life inspections/overhaul

 Inspect/repair/replace engine components at prescribed engine time-life.
- 3. <u>Compressor Section</u> Inspection, repair, and overhaul to include internal component replacement and repairs.
- 4. <u>Accessory Gear Box</u> Inspection, repair and overhaul to include internal and external component replacement and repairs.
- 5. <u>Turbine/Modular Sections</u> Inspection, repair and overhaul of all internal components to include repair and replacement of power turbine wheels, nozzles and all other related turbine section components.

- 6. <u>Combustion Section</u> Inspection, repair, overhaul and replacement of all internal and external component items.
- 7. <u>Engine Accessories</u> Inspection, test/repair, replace and/or overhaul engine accessories to include but not limited to fuel controls, fuel nozzles, governors, bleed valves and related components.
- 8. Quality Assurance Contractor may be required to conduct a teardown inspection to determine the extent of repairs necessary and provide an accurate cost estimate. After the repairs have been completed, Contractor shall perform a quality assurance inspection to ensure all work has been performed in accordance with factory prescribed maintenance procedures and provide written documentation certifying the work performed.
- 9. <u>Warranty</u> All engine, powerplant and related components shall be inspected, repaired/replaced or overhauled to manufacturer's specifications and warrantied against defects resulting from services rendered for a period of at least 90 days or 300 flight hours, whichever occurs first, unless otherwise warrantied by parts supplier.
- Performance Assurance Contractor shall provide performance assurance on all turbine overhauls equal to or greater than 10% above minimum factory engine power specification requirements.

C. <u>Airframe Inspection and/or Repairs</u>

Contractor shall furnish to Sheriff's Department on an as-needed, intermittent, and temporary basis all parts, labor, and incidental materials necessary to perform scheduled and unscheduled structural airframe repairs and/or inspections on the Sheriff's Department aircraft previously listed. Aircraft and/or components in need of maintenance services shall either be delivered to the Contractor and returned to the Sheriff's Department Aero Bureau located at 3235 Lakewood Boulevard, Long Beach, CA, 90808 at County's expense or the work may be performed by the Contractor at the Aero Bureau facility at an agreed upon hourly rate. Examples of the type of repair and/or phase inspections that may be performed consist of, but are not limited to, the following:

- 1. <u>Airframe Sheet Metal and Composite Surface Repairs</u> 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 to include aircraft painting and exterior finishes.
- 2. <u>Aircraft Hydraulic, Electrical, Lubrication, Fuel Systems and Components</u>- System testing, repairs, overhaul and component replacement.
- 3. <u>Landing Gears</u> Repair, overhaul and component replacement of landing gears, skids, cross tubes, struts, shock absorbers, wheels, brakes and all other related components.
- Flight Control Systems Repair, replace, overhaul and return to service all flight control system components, to include, but not limited to cables, control tubes, control rods, bellcranks, support assemblies and related fittings, hydraulics, and electronic or electrical components.
- 5. <u>Airframe Inspections</u> Perform scheduled airframe phase inspections in accordance with manufacturer specifications per special request of Sheriff's Department.

D. Avionics and Navigation Systems

Contractor shall furnish to Sheriff's Department on an as-needed, intermittent and temporary basis, all parts, labor, and incidental materials necessary to perform needed repairs, component replacement and overhaul services on all avionics and navigation equipment installed on the listed helicopters. Avionics and navigation components/equipment shall either be delivered to the Contractor and returned to the Sheriff's Department Aero Bureau located at 3235 Lakewood Boulevard, Long Beach, CA, 90808 at County's expense or the work may be performed by the Contractor at the Aero Bureau facility.

II. SERVICE TYPE 2 – Non-Critical Component Services Defined

Non-critical services and repairs, as defined by the Sheriff, are those services which do not directly affect the flight and operations of the helicopter.

Contractor shall furnish to Sheriff's Department on an as-needed, intermittent, and temporary 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
- c) Thermal Imagers and Video Cameras
- d) Overlay Panel
- e) Moving Map
- f) Communication radios
- g) PA and Siren System
- h) Medical Interior Modules and related equipment
- i) Aviation Oxygen Bottles/Regulators
- j) Aircraft Hoist and/or external cargo hook
- k) Air Conditioning Systems and Instruments
- I) Aircraft Interiors Repair and replacement of all aircraft interior components and accessories to include seats, upholstery, paneling, floors and surfaces, environmental systems and compartments to include aircraft painting and interior finishes.
- m) Aircraft Washing, Detailing, Cleaning (Interior)
- n) Aircraft Washing, Detailing, Cleaning (Exterior)
- o) All other non-critical special-mission equipment installed on Sheriff's helicopters.

All components and related equipment listed above shall either be delivered to the Contractor and returned to the Sheriff's Department Aero Bureau located at 3235 Lakewood Boulevard, Long Beach, CA, 90808 at County's expense, or the work may be performed by the Contractor at the Aero Bureau facility.

III. PROCESSES, CONTROLS, QUALITY, DEFINITIONS

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

A. Parts Procurement, Engineering, Technical Assistance and Product Support

Contractor shall furnish to Sheriff's Department on an as-needed, intermittent, and temporary basis selected manufacturer approved

repair parts, aircraft components (new and/or overhauled), engineering and/or technical assistance and product support necessary for Sheriff's Department employees to perform scheduled and unscheduled maintenance inspections, repairs and/or component overhaul/replacement for the listed helicopters and related components. Aircraft repair parts and/or components shall be delivered to the Sheriff's Department Aero Bureau located at 3235 Lakewood Boulevard, Long Beach, CA, 90808. Engineering and technical assistance shall be provided upon request.

- 1. Repair Parts Procurement Contractor shall provide the Sheriff's Department factory approved new or certified overhauled replacement aircraft parts obtained directly from the U.S. Navy, Original Equipment Manufacturer (OEM), authorized parts distributors and/or vendors authorized by the OEM to manufacturer and sell duplicate parts under Parts Manufacturing Authority (PMA). Selected vendors must either be Original Equipment Manufacturers, factory authorized distributors or factory authorized Service Centers. Vendors must additionally certify to the County of Los Angeles that all parts sold to the County meet aircraft airworthiness and safety standards as established by Federal Aviation Regulations and/or aircraft manufacturer.
- 2. Engineering and Technical Assistance Contractor shall provide to the Sheriff's Department Engineering and Technical Assistance on the listed helicopters for specific projects associated with aircraft modifications, maintenance programs and/or Type Certification or Supplemental Type Certification requiring Federal Aviation Administration approval or compliance with technical specifications as specified by the aircraft manufacturer, FAA and/or County of Los Angeles aircraft airworthiness standards.
- 3. Product Support Contractor shall provide to the Sheriff's Department required product support through alternate resources such as military aircraft parts procurement, research and development of special parts, tools and/or modifications needed to support the listed helicopter models, and design, engineer, manufacture and/or arrange approval of special parts and/or tooling needed to support a specific aircraft modification requirement which cannot otherwise be obtained from the aircraft manufacturer. Approval must be obtained from the Federal Aviation Administration, the aircraft manufacturer or aircraft airworthiness authority.

B. Materials and Supplies

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

C. 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 of other manufacturers may be used provided they are of the same type and of equal quality. The Sheriff's Department shall be the sole judge as to "equal". All materials and equipment shall be new, or an approved type, or certified overhauled and installed as recommended by the manufacturer. All materials and equipment shall be properly tested, regulated, adjusted and placed in proper operating condition before the work can be accepted.

D. Quality Assurance

The Contractor's quality control supervisor or his representative shall inspect the completed work and shall determine whether the work has been done in accordance with manufacturer's or U.S. Navy specifications. All documents must be signed by the quality control supervisor/representative verifying that the work meets appropriate airworthiness standards and the component / aircraft has been returned to airworthy condition. Contractor must correct defective materials or workmanship prior to payment by Sheriff's Department for such work. The Sheriff's Department reserves the right to conduct defect inspections at the Contractor(s) facility. All work must be done in accordance with accepted practices, safety standards and Federal Aviation Regulations.

E. Acceptability of Work/Delivery

All work shall be done in a professional manner and must be acceptable to technically qualified Sheriff's Department personnel designated by the County of Los Angeles. All work shall be completed within the time-frame estimate in the bid quote for the specific job.

F. Discrepancies

If the Sheriff's Department determines that work is not complete, not performed to standard or for some other reason not acceptable, the Sheriff's Department representative will notify the Contractor in writing or by telephone and request a meeting to resolve the discrepancy. Representatives of the Sheriff's Department and Contractor shall meet at the Aero Bureau within ten (10) days of the date of notification by the Sheriff's Department. Contractor shall not be paid for work until such discrepancy is resolved.

G. Contractor's Damages/Clean-up

- 1. All damages incurred to Sheriff's Department aircraft by Contractor shall be repaired or replaced at Contractor's expense.
- 2. All such repairs or replacements shall be completed within the time requirements as determined by Sheriff's Department. If Contractor fails to repair or replace damaged property, Sheriff's Department will deduct the cost of repairs for such damages, as determined by Sheriff's Department, from existing unpaid invoices due Contractor, or from future invoices submitted by Contractor, or bill the Contractor and the provisions of Paragraph 37.2 of Exhibit A (Additional Terms and Conditions) shall apply.
- 3. Upon completion of work, Contractor shall remove remaining excess materials from the aircraft or components. Any dirt or stains caused by the work under this Agreement shall be cleaned off and removed.

H. Guarantee

Contractor shall guarantee all materials and workmanship for a period of 90 days or 300 flight hours, whichever occurs first, from date of acceptance of work by Sheriff's Department. Date of acceptance is defined as the date the Sheriff's Department Aircraft Maintenance Manager or his designee signs off that work was accepted. If Contractor fails to make proper repairs under this guarantee, Sheriff's Department may, at its discretion; (1) deduct the cost of repairs, as determined by Sheriff's Department, from existing unpaid invoices due Contractor, (2) deduct the cost of repairs from future invoices submitted by Contractor or; (3) bill the Contractor for the cost of repairs.

I. Meetings

At various times throughout the Agreement term, the Contractor may be required to attend meetings called by the Sheriff's Department. The purpose of these meetings will be to discuss and resolve problems, and/or readjust assignments and working schedules to meet new needs. The Contractor will be given written notice seven (7) days prior to the meeting as to the date, time and location.

Sheriff's Helicopter Maintenance, Engineering and Repair Services Statement of Work