

DEPARTMENT OF THE INTERIOR – AVIATION MANAGEMENT

AIRCRAFT RENTAL AGREEMENT PROVISIONS: SUPPLEMENT NO. 8

FUEL SERVICING VEHICLE

B8.8.1 FUEL AND SERVICING REQUIREMENTS: GENERAL

B8.8.1.1 All fuel must be commercial (or military) grade aviation fuel approved for use by the airframe and engine manufacturer. Only fuels meeting American Society for Testing and Material (ASTM) or Military specifications are authorized for use. ASTM D-1655 (Jet A, A-1, or B), Mil T-5624 (JP-4, JP-8, JP-5), ASTM-D-910 or MIL T-910 (Grade 80,100,or 100LL)

B8.8.1.2 Vendors obtaining bulk fuel directly from distributors shall determine that fuel delivered to the Vendor's vehicle or storage tanks meets the specifications of paragraph B8.8.1.1. The current fuel delivery ticket shall be kept with the fuel delivery vehicle.

B8.8.1.3 Fueling operations, including storage and handling shall comply with the airframe and engine manufacturer's recommendations and all applicable FAA standards. The Vendor shall have a fuel quality assurance program. The National Fire Protection Association fuel-handling handbook shall be used as a guide, except that no passengers shall be on board the aircraft during fueling operations. Copies of "Aircraft Fuel Servicing", NFPA Manual #407, can be obtained from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269. Maintenance and security of fuel storage and fueling facilities are the Vendor's responsibility.

B8.8.1.4 Fuel shall pass through a filtering system as outlined in section B8.8.4 in accordance with the filter manufacturer's recommendations.

B8.8.2 FUEL SERVICING VEHICLE: GENERAL

B8.8.2.1 As stated in the contract terms and conditions of the document, the Vendor shall comply with all applicable federal, state, and local laws. Vendor fuel servicing vehicles must meet all requirements of 49 CFR applicable to the type of fuel being transported. **Note:** 49 CFR 171.1© pertains to persons under contract to the federal government.

B8.8.2.2 The Vendor shall supply a fuel servicing vehicle when necessary to support operations. The fuel-servicing vehicle shall be approved annually by the government. The fuel-servicing vehicle shall display a current USDI/DOI AM or USDA/FS inspection sticker. This approval/inspection sticker is only an indication that the vehicle meets the additional equipment requirements of this procurement, and in no way indicates that the vehicle meets any requirement of 49 CFR.

B8.8.2.3 Fuel servicing vehicles shall be properly maintained, clean, and reliable. Tanks, plumbing, filters, and other required equipment shall be free of rust, scale, dirt, and other contaminants. All leaks shall be repaired immediately.

B8.8.2.4 All tanks shall be securely fastened to the vehicle bed and shall have a sump or sediment settling area.

B8.8.2.5 Filter and pump sizes shall be compatible with the helicopter being serviced. The fuel servicing vehicle shall, at a minimum, provide a 10-gallon per minute flow rate measured at the nozzle.

B8.8.2.6 Gasoline engine driven pumps shall have a shielded ignition system and an approved spark arrestor muffler. All refueling pumps regardless of power source shall be listed for use with petroleum products. (UL, FM, etc.)

B8.8.2.7 Trailers shall have an effective wheel-braking system. The power for the trailer braking system shall be controlled from the towing vehicle.

B8.8.3 FUEL SERVICING VEHICLE: EQUIPMENT

B8.8.3.1 Each aircraft fuel servicing tank vehicle shall have two fire extinguishers, each having a rating of at least 20-B:C with one extinguisher mounted on each side of the vehicle. Extinguishers shall comply with NFPA 10 Standards for Portable Fire Extinguishers.

B8.8.3.2 Tanks erected for above ground storage, and tanks mounted on vehicles shall be designed to allow contaminants to be removed from the sediment settling area.

B8.8.3.3 Only hoses compatible with the aviation fuel being serviced shall be used. Hoses shall be kept in good repair.

B8.8.3.4 The fuel nozzle shall include a 100 mesh or finer screen, a dust protective device, and a bonding cable with clip or plug. Nozzle hold open devices are not permitted.

B8.8.3.5 An accurate fuel-metering device for registering quantities in U.S. gallons of fuel pumped shall be provided. The meter shall be visible to the fuel handler while servicing the aircraft.

B8.8.3.6 Fuel servicing vehicles shall have adequate bonding cables and they shall be utilized in accordance with NFPA Manual #407.

B8.8.3.7 Fuel servicing vehicles shall carry sufficient petroleum product absorbent pads or materials to absorb or contain a five-gallon petroleum spill. The Vendor is responsible for proper disposal of all products used in the cleanup of a spill in accordance with the EPA (40 CFR Part 261 and 262).

B8.8.4 FUEL SERVICING VEHICLE: FILTERING SYSTEM

B8.8.4.1 Filtration must be sized to withstand fuel system pressures and flow rates.

B8.8.4.2 The filter manufacturer's Operating, Installation, and Service Manual shall be with the fuel-servicing vehicle and complied with.

B8.8.4.3 Filtration must meet one of the following qualifications: Institute of Petroleum (IP), API 1581, or MIL-F-8901E. Some examples of IP qualified elements are Velcon CDF 210K, CDF 220K, ACO 51201K, ACO 21201K, ACO 40501SPK, and ACO 40901SPK.

B8.8.4.4 The filter vessel shall be placarded indicating the filter change date. Spare filters shall be available to allow periodic and emergency filter changes

B8.8.4.5 Fuel transfer systems must have a pressure gage installed upstream of the filter vessel.

B8.8.4.6 Differential pressure gages must be installed on refueling systems if required by the filter manufacturer or in systems operating at 25PSI and above.

B8.8.4.7 If equipped with a drain, the bottom of the filter assembly shall be mounted to allow room for draining and pressure flushing into a container. If the unit is equipped with a water sight gauge, the balls shall be visible.

B8.8.4.8 Three-Stage (filter, water separator, monitor) Systems (API 1581 or MIL-F-8901E qualified). Fueling systems shall utilize a three-stage system such as a Facet Part Number 050970 M2 for 20 gallons per minute pump, or equal. A Facet Part Number 050971-M2 for a 10 gallon per minute pump, or equal. An acceptable third stage (monitor) unit is Velcon CDF 220E for 20-gpm flow or Velcon CDF 210E for 10 gpm systems.

B8.8.4.9 Single-Stage System or Three-In-One Filter Canister Systems (IP qualified) shall utilize a single element system such as a Velcon filter canister with Aquacon cartridge of a size compatible with pumps flow rate.

Examples: Velcon VF-61 canister with an ACO-51201-B cartridge for 50 to 60 GPM flow rate or ACO-40501SP for 10 to 15 GPM flow rate.

B8.8.4.10 A spare filter, seals, and other spare components of the fuel-servicing vehicle filtering system shall be stored in a clean, dry area within the fuel-servicing vehicle.

B8.8.5 FUEL SERVICING VEHICLE: MARKINGS

B8.8.5.1 Each fuel-servicing vehicle shall have "NO SMOKING" signs with three-inch minimum letters visible from both sides and rear of vehicle.

B8.8.5.2 Each fuel-servicing vehicle shall be conspicuously and legibly marked to indicate the fuel grade. The markings shall be on each side and the rear in letters at least three inches high on a background of a sharply contrasting color such as Avgas by grade or jet fuel by type.

Examples: Jet-A white on black background or Avgas 100 white on green background.

B8.8.6 FUEL SERVICING VEHICLE: OPERATIONS

B8.8.6.1 Government personnel shall not be involved with refueling of agreement aircraft.

B8.8.6.2 Smoking is prohibited within 50 feet of the aircraft and fuel servicing vehicles.

B8.8.7 FUEL SERVICING VEHICLE: DRIVER DUTY LIMITATIONS

B8.8.7.1 Fuel Servicing Vehicle Drivers shall comply with Department of Transportation (DOT) Safety Regulation 49 CFR Parts 390-399, including duty limitations. It is the Vendor's responsibility to insure that employees comply with DOT regulations. The fuel servicing vehicle driver shall have a minimum of two (2) full calendar days of rest (24-hour periods in Alaska) during any 14-day period. Off duty days need not be consecutive.

B8.8.7.2 The fuel servicing vehicle driver shall be responsible for keeping the Government apprised of his/her duty limitation status.

B8.8.7.3 Relief or substitute fuel servicing vehicle drivers reporting for duty under any contract may be required to furnish a record of all DOT duty time during the previous 14 days.

B8.8.7.4 Fuel servicing vehicle drivers may be removed from duty for fatigue or other causes created by unusually strenuous or severe duty before reaching duty limitations.

B8.8.8 PERSONAL PROTECTIVE EQUIPMENT FOR GROUND OPERATIONS

B8.8.8.1 While within the safety circle of an operating helicopter, all personnel shall wear the following PPE:

B8.8.8.2 Shirt with sleeves overlapping gloves and pants with legs overlapping boots, hard hat or flight helmet with chin strap fastened, hearing protection, and eye protection.

Note: Maintenance personnel working on a running aircraft are exempt from glove and hardhat requirements.

B8.8.8.3 In addition, fuel service vehicle operators shall wear non-static (example: cotton/natural fiber) clothing and gloves.