STATEMENT OF OBJECTIVES
5 Feb 2018

1. **DESCRIPTION OF REQUIREMENT:** The Defense Logistics Agency (DLA) Aerospace Energy Business Unit, as the Department of Defense (DoD) Integrated Materiel Manager (IMM) for Aerospace Energy products and related services, requires delivery of Gaseous Nitrogen (GN2) f.o.b. destination into a Customer owned pipeline in support of Pratt & Whitney at Jupiter, FL. The Contractor shall provide all product, materials, supplies, management, tools, equipment, transportation, energy, and labor necessary for the delivery of GN2.

2. **PRODUCT SPECIFICATIONS AND TESTING REQUIREMENTS**: GN2 (NSN 9135-00-823-8115) shall meet the requirements of Type I, Grade A, MIL-PRF-27401F, dated January 10, 2008, Propellant Pressurizing Agent, Nitrogen with the following modifications to the specification:

2.1. Paragraphs 3.3 through 3.3.2: Replace with "Filters. The GN2 shall be filtered through a dual filtration system. The primary filter shall be rated at 2 micron nominal and 10 micron absolute. The final downstream filter shall be rated at 0.4 micron absolute. Both filters shall be located downstream of the compressor and/or converters and the final downstream filter shall be located as close to the user's interface as possible. The filters shall remove from the gas all particles greater than 100 micron in any dimension."

2.2. In addition to the reports required elsewhere within the contract, one copy of a certificate of analysis for each sample required by the specification shall be sent to DLA Energy Quality within three days after the analysis of that sample. The analysis report shall be emailed to tech.prop@dla.mil or faxed to the attention of DLA Energy Quality at (210) 925-8048.

3. **PRODUCT ORDERING**: The DLA Energy Contracting Officer (CO) shall issue Delivery Orders (DD Form 1155) for obligation of funds for orders to be issued during that specific timeframe by the appointed Ordering Officer. The individual orders placed by the appointed Ordering Officer will designate the specific quantity to be delivered at the customer location specified in the contract.

4. **PRODUCT DELIVERY**: This contract calls for uninterrupted delivery (with the exception of coordinated downtime for maintenance) of GN2 product, 24 hours a day, 7 days a week. Delivery is f.o.b. destination into the Contractor provided tanks and production plant which will interface with Pratt & Whitney, Government Engines & Space Propulsion facility. Product shall be delivered to the following address:

Pratt & Whitney Rocketdyne (FL)
Attention: Area E Fuel Farm
17900 Beeline Highway
Jupiter, FL 33478

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5. **PRODUCT PRESSURE AND FLOW RATE**:

- Pressure 3,600 – 5,000 psi
  - System to provide high pressure (max 5000 psi) and low pressure(max 1800 psi)
- Low flow rate 10,000 – 11,000 scf/hr
- High flow rate 115,000 – 138,000 scf/hr

6. **HIGH FLOW EVENTS**: The Contractor shall be capable of supporting High Flow requirements within a one hour notice of need and be capable of supporting High Flow needs for up to 24 hours.

7. **CONTRACTOR PROVIDED EQUIPMENT**: The Contractor shall provide all necessary equipment, such as liquid storage tanks, vaporizers, pumps, gaseous storage tubes, controls, valves, telemetry monitoring, necessary to maintain pressure and flow rates as stated in paragraph 5 above. The Contractor shall ensure a proper interface between the installed components and Pratt & Whitney facilities pipeline.

7.1. Contractor shall install a calibrated gas flow meter prior to Customer interface to measure supply of gas.

7.2. Within 10 days of contract award, Contractor shall provide DLA Energy CO and Pratt & Whitney complete and detailed infrastructure requirements to include, but not limited to: Power, Piping and interface, Shelter, Fencing, Water, Fire suppression (if needed), delivery/loading requirements, etc. In addition and within 10 days of contract award, Contractor shall provide complete and detailed footprint and layout of equipment, Concrete and Asphalt requirements, and Expected noise level.

8. **INSTALLATION**: All equipment shall be installed within the 30ft by 80ft area provided by Pratt & Whitney Rocketdyne. It is expected that concrete pad installation will be complete within 120 days of award.

8.1. Contractor shall have all equipment installed and operational within 180 days of contract award. Dates for transition, initial support, and any plant shutdown requirements shall be closely coordinated between Contractor and Pratt & Whitney. Contractor-provided tanks may be chilled through initial deliveries, but initial deliveries into Contractor-provided tanks shall not qualify as a “Hot Fill” service.

9. **EQUIPMENT MAINTENANCE**: The Contractor shall perform all inspections and maintenance of Contractor-provided tanks and equipment to assure system provides safe and uninterrupted support.

10. **REMOVAL OF CONTRACTOR-PROVIDED TANKS AND EQUIPMENT**: Contractor-provided tanks/equipment shall be removed by the Contractor within 30 calendar days after contract termination. The Contractor will coordinate with the current supplier to effect removal of current equipment and installation of new equipment or to change out of

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existing system or tanks to eliminate any delay in supply of product. The Contractor shall check piping for leaks at each fill and repair all leaks on Contractor provided piping.

11. **DOWNTIME**: Downtimes shall be coordinated with and agreed by Pratt & Whitney through DLA Energy-QEM to accommodate run schedules. A minimum of 30 calendar days advance notice is required for planned downtimes.

11.1. Within 30 days of initial product support date, Contractor shall provide DLA Energy CO and Pratt & Whitney back-up contingency plans in the event of major equipment failures. If equipment fails, regardless of the cause (including, but not limited to, force majeure events), the Contractor (GN2 supplier) must be able to maintain a supply of product at a minimum flow rates required at all times.

12. **INSPECTION AND ACCEPTANCE**: Inspection for quality, quantity determination and acceptance shall be performed at destination.

13. **SECURITY REQUIREMENTS**: For access to the premises, Contractor's personnel shall have a valid driver's license and proof of U.S. citizenship. Contractor personnel shall notify Pratt & Whitney of delivery dates.

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