

Statement of Work:

Engineering Study for A New Compressed Air System for the USMC Shop Equipment, Contact Maintenance Truck (SECM)

Monday, August 02, 2004

1. Scope. This Statement of Work (SOW) provides direction demonstrate the feasibility of updating the United States Marine Corps (USMC) Shop Equipment Contact Maintenance (SECM) with a new style of compressed air system.

1.1 Background information. The current compressed air system has always been under powered. There has always been the desire by the end user for a compressed air system that in the SECM that would provide the power needed to support pneumatic tool operations. The SEMC consists of general mechanic hand tools and equipment used to perform maintenance and repairs of tactical vehicles.

1.2 Government Furnish Equipment (GFE). The Shop Equipment Contact Maintenance (SECM) shall be provided as Government Furnish Equipment (GFE).

2. Standards and specifications. No Standards or specifications related to this project have been identified at this time.

3. Requirements. The contractor shall mount their proposed rotary screw compressed air system in the GFE SECM. This system shall be mounted under the hood of the GFE SECM.

3.1 Performance of the rotary screw compressed air system. The compressed air system installed shall meet the following minimum requirements:

- a. The rotary screw air compressor shall provide at least 30 SCFM at 175PSI.
- b. The rotary screw air compressor shall provide a high temperature cut-off switch.
- c. The envelope dimension for rotary screw air compressor alone shall not exceed 7"x 8"x 12".
- d. The rotary screw air compressor weight shall not exceed 50 lb.
- e. The rotary screw air compressor system shall provide automatic throttle control for the GFE SECM engine. This control will be used to match air demand.
- f. The air receiver tank shall be incorporated in the system:
 - a. Tank size 3 US. Gallons
 - b. 200 PSI high pressure relief valve
 - c. Integrated coalescing oil separator element
 - d. Lubricant sight glass
 - e. Replaceable spin on 25 micron oil filter with safety bypass feature

- f. 8 sec. automatic blow down valve
- g. Envelope dimensions shall not exceed 6.5" dia. x 31" long.
- h. Weight shall not exceed 20 lb.

3.1.2 Installation instructions. The contractor shall provide a complete set of installation instructions. These instructions will outline in detail all of the necessary steps need to complete the modification of SECM and installation of the rotary screw air compressor. These instructions shall be prepared in a format of the contractor choosing using Microsoft Word and shall be provided to the government for review.

4. Proposal acceptance and evaluation criteria.

4.1 Acceptance criteria. Technical capability shall be evaluated based on the following criteria:

- a. Contractor shall have specific knowledge and experience with the rotary screw compressed air system.
- b. Contractor core business shall be installation of under the hood rotary compressed air system on commercial vehicles.

4.2 Technical capability. The technical capability shall be evaluated based on the contractor's plan for execution of this task order to include items like; efforts, the contractor's specific knowledge/experience with the rotary compressed air systems, also to include personnel experience/knowledge/development.

5. Contract actions. The following actions shall be performed to complete the contract.

5.1 Technical information. The Government shall furnish as a part of the contract such technical information and related to performance requirements as necessary for the contractor to perform this contract; to include a GFE SECM and all related technical publications for the SECM and the HMMWV platform on which the SECM is mounted.

5.2 Deliverables. At the completion of the compressor installation and testing the contractor will notify the Government that he has completed this phase of the contract. The government's technical representative will then meet with the contractor at a location jointly agree to ensure the contract requirements have been met. Deliverables will include the modified GFE SECM with rotary screw compressed air system installed and operator / installation instruction manuals. The prefer format for this documentation is Microsoft Word.

5.3 Acceptance. Acceptance by the government will be based on the deliverables to include the fully installed and operational rotary screw compressed air system. The operator / installation instruction manuals will also be reviewed for completeness and accuracy. Upon acceptance the Contractor will deliver the GFE SECM and operator / installation instruction manuals to Rock Island, IL.

5.4 Additional information. At the completion of the contract the contractor shall provide cost for ten additional systems with on site technical assistance. The ten additional systems, if purchased, may be installed at CAMP Lejeune, NC or CAMP Pendleton, CA

5.5 Quality assurance procedures. The contractor shall apply his own quality assurance procedures to his manufacturing process assuring that the product delivered meets all the contract requirements.