

W56HZV-05-R-BAA1 Topic #16

Added by Amendment 0028, issued 20 February 2009

Revised by Amendment 0033, issued 19 March 2009

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TOPIC # 16: No Idle Climate Control System

1. OBJECTIVE: Under this topic, the Government invites proposals to develop an existing commercial off the shelf (COTS) no idle climate control system for application to military vehicles. The successful offerors are required to modify an existing COTS production system to support military requirements. Under this contract, successful offerors will be required to deliver up to ten (10) prototypes. The Government intends to award **up to three (3) contracts** with available funding.

2. PROGRAM DESCRIPTION: With the additional demand on vehicle main engines in today's fleet, the parasitic draw of the vehicle climate control system weighs heavily on the performance and reliability of the vehicles main engine. An additional need to control vehicle interior temperatures without running the main vehicle engine will be addressed with this program.

The no idle climate control system shall have separate units for inside and outside mounting on the vehicle, with minimal interconnections.

1. Main Power Pack (Mounted outside the vehicle)
2. Interior air handler and controls (Mounted inside the vehicle)
3. Exterior condenser (May be part of the Main Power Pack, mounted outside)

The system may be tied into the vehicles main electrical system, and fuel system. The contractor is not required to provide batteries/battery storage or fuel capacity.

The following requirements shall apply to the system (See Appendix A for more details):

- A. Provide minimum 30,000 to 60,000 btus/hr of cooling at 125 Deg F and Solar load of 1120 W/M²
- B. Provide minimum 30,000 btus/hr of heating at -40 Deg F
- C. Minimum 400CFM interior air flow
- D. Be self sufficient except for fuel supply
- E. Run off both JP8 and DF2 (commercial diesel)
- F. Operate in environments from -40 Deg F to 125 Deg F
- G. Operate on a +/- 30 percent grade
- H. 24Vdc system, meeting MIL-STD-1275D

The following system requirements have been DELETED.

- I. Weather and cleaning spray resistant*
- J. Operate in a high sand and dust environment*
- K. Withstand vibration and shock*

The weight and size of the developed system cannot exceed the commercial product's weight and size by more than 25 percent.

The contractor shall deliver up to ten (10) prototypes for government testing.

PROPOSALS THAT REFLECT A "PARTIAL SOLUTION" TO THE TECHNICAL OBJECTIVE ARE NOT ACCEPTABLE. THE GOVERNMENT WILL CONSIDER ONLY THOSE PROPOSED PROJECTS THAT ADDRESS ALL ELEMENTS OF THE OBJECTIVE.

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3. PROJECT DURATION AND ESTIMATED MAXIMUM FUNDING AVAILABLE.

- A. Duration: Estimated 10 months
- B. Total Estimated Funding Available (amongst all contracts): **\$300,000**
- C. The Government anticipates awarding **up to three (3) contracts** as a result of this topic.

4. ADDITIONAL NOTES/CONSIDERATIONS.

a. Government Documents:

- (i) There are **two (2) Appendices** included with Topic #16.
 - a. **Appendix A (UPDATED)** – Clarification of requirements for the no idle climate control system
 - b. **Appendix B (DELETED)**
 - c. Appendix C – MIL-STD-1275D, Characteristics of 28 Volt DC Electrical Systems in Military Vehicles

b. ALTERNATE PROPOSALS:

- (i) Offerors may submit one (1) alternate proposal with a differing approach to meeting the requirements set forth for Topic #16. The Government will separately evaluate the alternate proposal received. Therefore, the alternate offer submitted must be a complete, comprehensive, stand-alone proposal, which is fully responsive to the information requested in Topic #16. The alternate offer must be clearly identified and submitted separately. All proposals shall clearly identify why the acceptance of the proposal would be advantageous to the Government. An offeror shall be eligible to receive up to two (2) awards. It is the Government's intent to award up to three (3) contracts.

MILESTONE SCHEDULE

Discussion Timeframe: 20 February 2009 – 30 March 2009

Electronic copies of proposals due: 30 April 2009

Special Proposal Instructions:

After 13 February 2009, all proposals must be submitted using the ASFI Bid Response System (BRS), which may be accessed at <https://acquisition.army.mil/asfi/default.cfm>.

You will find Topic 16 for proposal submission by searching Contracting Opportunities for "TARBAATOPIC16." As reflected by the results of this search, proposals for Topic 16 may be uploaded via the ASFI BRS at the following URL:

https://acquisition.army.mil/asfi/solicitation_view.cfm?psolicitationnbr=TARBAATOPIC16

Estimated award date: **19 June 2009**

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