



**DEFENSE THREAT REDUCTION AGENCY
AND
UNITED STATES STRATEGIC COMMAND CENTER
FOR COMBATING WEAPONS OF MASS DESTRUCTION**

AMENDED JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION

The purpose of this amendment is to change the estimated cost of this action [REDACTED].

1. Nature and/or Description of Action

The Defense Threat Reduction Agency (DTRA) and United States Strategic Command Center for Combating Weapons of Mass Destruction contracting activity proposes to procure, without using full and open competition, continual support for Meteorological Data Server (MDS) and Numerical Weather Prediction (NWP) via modification under contract HDTRA1-13-C-0054 with Leidos, Inc. This contract provides tailored, timely environmental parameters in support of the DTRA Mission Essential Function to provide Technical Reachback. In addition it supports the Program of Record Joint Effects Module, a Department of Defense (DoD)-wide atmospheric transport and dispersion program, the Integrated Weapons of Mass Destruction Toolset, a DTRA-tailored web centric consequence management capability used by DoD and allies, the United Kingdom's Defense Scientific Technical Laboratory which provides technical analysis for the United Kingdom's Ministry of Defence, the North Atlantic Treaty Organization's Joint Chemical, Biological, Radiological and Nuclear Defence Center of Excellence and the Federal Emergency Management Agency in its taskings for the Interagency Modeling and Atmospheric Assessment Center. This contract covers the design, research, development, testing, evaluation, operation and maintenance of the MDS and NWP services provided to the DTRA for consequence assessment and management (CA/CM) functions suitable for use in the Hazard Prediction and Assessment Capability (HPAC), Joint Effects Model (JEM), and the Integrated Weapons of Mass Destruction (IWMDT) software. The purpose is to assist in the modeling of accidental and purposeful release of toxic materials into the environment. The end-state goal is a comprehensive meteorological capability to serve DTRA and DoD CA/CM functions. The end system must include both an in-house, high-resolution NWP capability and the ability to serve NWP and observational data in appropriate formats seamlessly and securely to DTRA and DoD customers.

2. Description of the Supplies/Services Required

The contractor shall serve as DTRA's technical focal point for developing and maintaining meteorological data services for ingest into CA/CM modeling used by DTRA's Technical Reachback, Joint Programs of Record and allies to provide critical information to decision makers in the event of an accident, attack or targeting. The contractor shall build upon existing operational and research and development (R&D) meteorological computing platforms and prototype capabilities through research, design, development, engineering, publication, and upgrade of methodologies and technologies. In addition, the contractor shall provide real-time,

on-demand, full-spectrum environmental (meteorological, oceanographic, hydrological, hydrographic, etc.) data to support consequence assessment and analysis for events that occur beneath the ground or water, at the ground or water surface, within the planetary boundary layer, above the planetary boundary layer, or within and beyond the troposphere (including the thermosphere, ionosphere, and space). The ingestion, quality assurance, management, and distribution of environmental data to support high-fidelity modeling and simulation in the defined environments pose a tremendous technological challenge and cannot be interrupted without significant adverse impact to the DTRA mission and that of our allies.

In addition, the requirement includes providing 24/7/365 timely and reliable delivery of near-real-time meteorological data (observations and NWP output), and other environmental data sets, to support and enhance the accuracy of Chemical Biological Radiological Nuclear Explosives (CBRNE) related atmospheric transport and dispersion (ATD) calculations and other types of consequence assessments and analyses. DTRA's user community, as described in the first paragraph, is well trained and educated in the science and technology of CBRNE analysis and consequence assessment. To comply with the Chairman of the Joint Chief of Staff Instruction 3160.1 "No Strike and the Collateral Damage Estimation Methodology, DTRA requires access to data provided by the MDS to complete its situational awareness and to maximize its effectiveness in real-world operations and exercises. To varying degrees, DTRA's user community needs real-time visibility into system loads, data availability schedules, data quality, data completeness, and system and network challenges. The provision of continuous, reliable and relevant environmental data is critical to the success of DTRA and our partners and allies to meet real-world national security objectives. Providing complete knowledge, and not just data, to end-users strengthens the operator-user relationship, encourages community-endorsed system improvements, and ensures the continuous evolution toward 100 percent mission success.

This is an in-scope continuation effort modifying the existing contract by adding one (1) two-month option plus an additional three (3) one-month options. This extends the period of performance from 6 April 2016 to 6 September 2016, if all options are exercised. The estimated dollar value [REDACTED].

3. Statutory Authority

The statutory authority for this non-competitive action is 10 United States Code (U.S.C.) 2304(c)(1), as implemented by FAR 6.302-1(a)(2)(iii), Only One Responsible Source.

4. Applicability of Authority

This is the first time the aforementioned authority has been used for this contract. This is a continuation of existing work being performed under the current contract. The requirement is presently in the process of being re-competed on the CWMD IDIQ; [REDACTED]

[REDACTED] Therefore, DTRA anticipates an additional two to five months of continuation of the current contract before award of a new task order.

Without approval of this extension for continual performance, critical work accomplished under the current contract will not continue. DTRA's Mission Essential Function "Technical Reachback" would not be able to perform their mission in support of Combatant Commands as well as U.S. Agencies such as the Federal Emergency Management Agency, allies such as NATO, and special partners such as the United Kingdom. Without this effort, critical weather information will fail to make it into CA/CM modeling tools, thus disabling operators' abilities to assess, prepare and react to hazardous CBRN plumes.

Furthermore, the current performer is also in the midst of transitioning the entire system from physical servers to virtualization. The virtualization is the Defense Information Systems Agency's (DISA) mandate as part of Federal Data Center Consolidation initiative to consolidate all servers and server based applications to DISA. Not approving the extension risks having the MDS and NWP not be compliant with this federal mandate and resulting in DTRA having CAT 1 Critical and High findings. These CAT 1 findings put the entire DTRA network at risk of being sanctioned by USCYBERCOM. The contract is in the critical last phase of this transition having just passed the Engineering Review Board and is in the process of obtaining DTRA's Initial Authority To Test (ATO), and eventually DTRA's final Authority to Operate. Without continual performance, there is a high potential result in failure to obtain the required ATO and subsequent disconnection of the system from the network and ultimately mission failure for DTRA.

[REDACTED]

This skillset cannot be adequately covered by DTRA employees or other current DTRA IT support without substantial training and adverse impacts to other projects and efforts within DTRA. Further, Leidos had won the award of the current contract under full and open competition.

[REDACTED]

Allowing a transition or break in service at this critical point in effort will increase risk above acceptable levels and cost the Government substantially in time and money. Extending the period of performance to 6 September 2016 is adequate time to allow the continuation of work under the current contract while the re-compete of the requirement is in process. Providing the extension will lower the risk and save cost for the Government

[REDACTED]

A new team cannot immediately assume all aspects of this mission, especially at this critical time in the certification and accreditation of the system.

[REDACTED] This will cause unacceptable delays in fulfilling the Government's requirements. [REDACTED]

[REDACTED] This is a substantial duplication of cost that cannot be recovered through competition.

5. Effort to Solicit Potential Sources

Given this modification will provide an extension between the existing contract vehicle and the new task order under the multiple award CWMD IDIQ, potential sources were not sought. The multiple award offerors include Alion Science and Technology Corporation, Applied Research Associates (ARA), Engility Corporation, Exelis, Incorporated, Leidos, Incorporated, Northrop Grumman Systems Corporation, and Raytheon Company.

6. Fair and Reasonable Costs

The anticipated cost of this contract action to the Government will be determined to be fair and reasonable based on field pricing support, input/evaluation from the project office, comparison with historical information, and certified cost and pricing data.

7. Market Research

In accordance with Federal Acquisition Regulation (FAR) Part 10, market research has been conducted for this contract modification. The market research was performed in two parts. First the [REDACTED] offerors who submitted proposals to compete for the existing contract, [REDACTED] were re-evaluated to determine if they have gained or lost capability. Secondly, a survey of the CWMD IDIQ providers was evaluated to gauge their capabilities.

For the first part, based on further market research, [REDACTED]

[REDACTED] Market research clearly shows that Leidos is the most advantageous performer for the continued effort. Websites for [REDACTED] offerors that submitted proposals competing for the existing contract were thoroughly reviewed to compare capabilities now versus capabilities during proposal evaluation. [REDACTED]

In the second market research part, the current CWMD IDIQ contractors were evaluated. [REDACTED]

Alion Science and Technology Corporation [REDACTED]

ARA

Exelis, Incorporated

Northrop Grumman Systems Corporation

Raytheon Company

8. Other Supporting Facts

Leidos has an entire branch of their company dedicated to Space, Earth and Environmental Sciences.

9. Interested Sources

None were solicited.

10. Subsequent Actions

DTRA intends to compete the longer term effort during this extension modification.

Technical Certification

I certify that the data and information forming the basis for this justification are accurate and complete to the best of my knowledge and belief.

Contracting Officer’s Representative

Date

Contracting Officer Certification

I certify that this justification is accurate and complete to the best of my knowledge and belief.

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Contracting Officer

Date

General Counsel Coordination

This justification is legally sufficient.

Attorney

4 March 2016

Date

Approval

Based on the above justification, I hereby approve accomplishment of this acquisition by means other than using full and open competition.

Competition Advocate

March 4, 2016

Date