

**JUSTIFICATION REVIEW DOCUMENT
FOR EXCEPTION TO FAIR OPPORTUNITY (EFO) (\$650K - \$12.5M)**

Program/Equipment: Stryker Maintenance Training System (MTS) Diagnostic Troubleshooting Trainer (DTT) Three Dimensional (3-D) Graphics Conversion for Stryker DTT lessons.

Authority: Federal Acquisition Regulation (FAR) 16.505(b) (2) (i) (C)

Amount: [REDACTED]

Prepared by:

[REDACTED]
Project Director

Date: 5 Apr 16

Contracting Officer:

[REDACTED]
Contracting Officer

Date: 8 Apr 16

Technical Representatives:

[REDACTED]
Lead System Engineer

Date: [REDACTED]

Requirements Representatives:

[REDACTED]
Chief Engineer

Date: 5 Apr 16

I have reviewed this justification and find it adequate to support other than full and open competition.

Product Manager

[REDACTED]
Signature:

Date: 5 April 16

Legal Counsel

[REDACTED]
Signature: J. J. [Signature]

Date: 12 Apr 16

Command Advocate for Competition

[REDACTED]
Signature: [Signature]

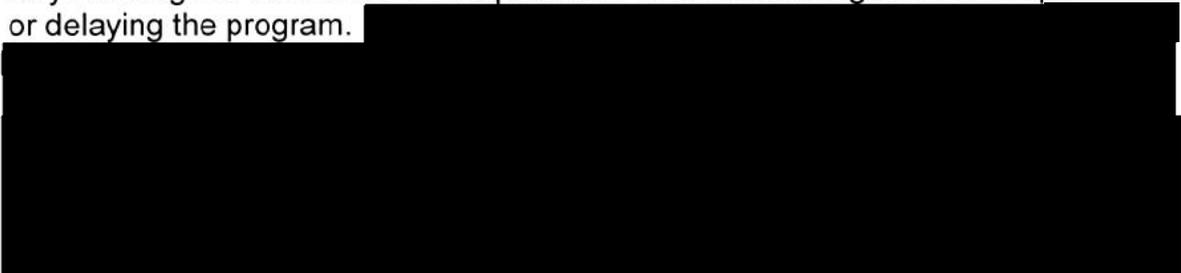
Date: 26 Apr 16

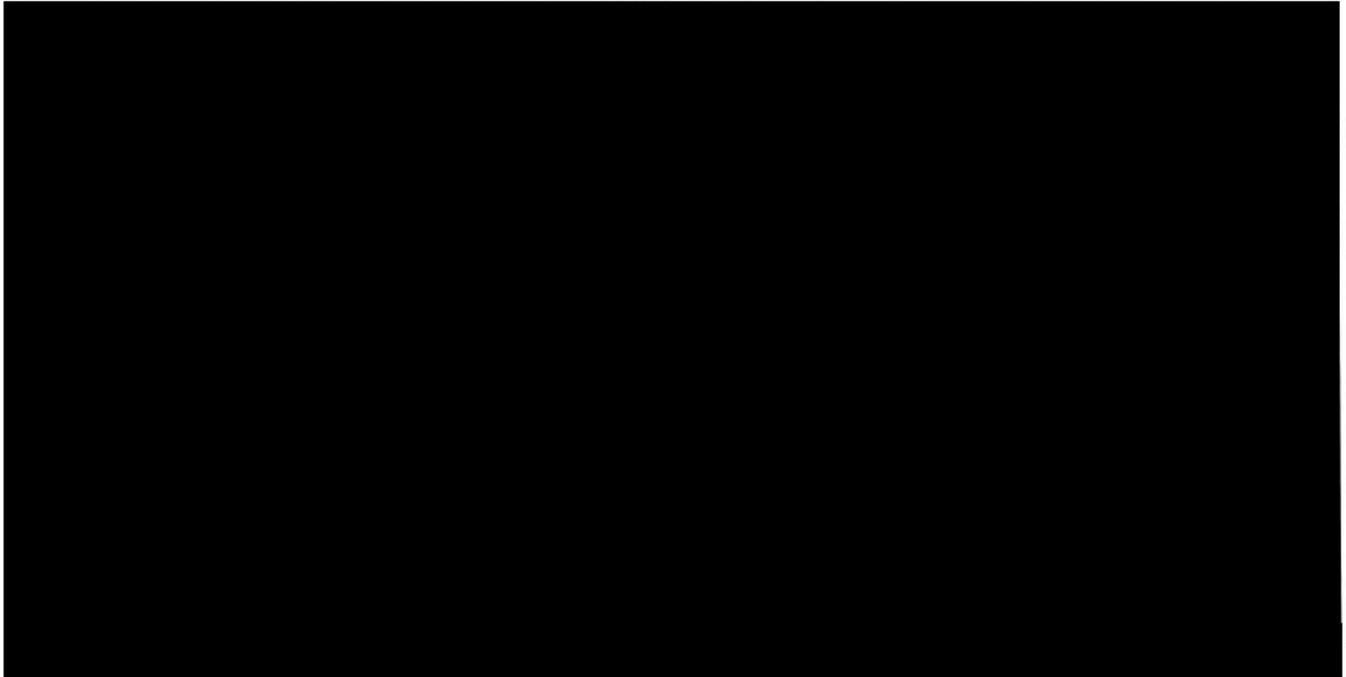
**EXCEPTION TO FAIR OPPORTUNITY
FOR OTHER THAN FULL AND OPEN COMPETITION**

1. Contracting Activity: Army Contracting Command – Orlando (ACC-Orlando)
2. Description of Action: The Government anticipates awarding a new Firm Fixed Price (FFP) Delivery Order (DO) to DiSTI Corporation, under PEO STRI's Omnibus Contract II (STOC II) W900KK-09-D-0562 DO 0002, citing Fiscal Year 2016 (FY16) Army customer procurement funds. This effort is planned to be awarded as a logical follow on to the existing contract with a Period of Performance (POP) of 18 months.
3. Description of Supplies/Services: PM GCTT has a requirement to upgrade the software by converting of the Stryker Maintenance Training System (MTS) lessons on the Diagnostic Troubleshooting Trainer (DTT) from a 2-D format to a 3-D format. The current contract delivery order was awarded to design and develop maintenance lessons in 3-D format for the Stryker Mobile Gun System (MGS). This new requirement will deliver the conversion of the current lessons that are 2-D to a 3-D graphic design. The requiring activity, Project Manager Stryker Brigade Combat Team (PM SBCT) will provide the funds associated with this effort. The value of this effort [REDACTED]
4. Authority Cited: The action will be awarded on a sole-source basis in accordance with (IAW) FAR 16.505(b)(2)(i)(C); "The order must be issued on a sole-source basis in the interest of economy and efficiency as a logical follow-on to an order already issued under the contract, provided that all awardees were given a fair opportunity to be considered for the original order."
5. Reason For Authority Cited:
 - a. Background: In August 2014 a contract was awarded to DiSTI Corporation as a small business set aside competitive under STOC II LOT II for the Stryker MTS Phase IV. This effort currently in place is adding the MGS lessons to the DTT's utilizing 3-D graphics. PM SBCT has provided funding to upgrade selected lessons from 2-D to 3-D in FY16 based on earlier provided estimates from PEO STRI. The training systems which support the Military Occupational Specialty (MOS) 63B consisted of a 20-seat classroom trainer, multiple hull hands on trainers (HOTs), part-task trainers (PTTs), and a training management system. The classroom trainer (DTT) is a computer-based virtual-reality, interactive video-training device that accurately simulates approximately 460 Stryker system troubleshooting and 300 maintenance actions. Each Stryker MTS student in the 20-seat MOS-63B classroom independently navigates through troubleshooting and maintenance training actions, while being independently monitored at a central instructor console. After completion of the classroom training, students' progress to HOT trainers where physical hardware training is integrated with virtual training using replicated, instrumented Stryker system components to form integrated

vehicle subsystems. The PTTs realistically simulate and duplicate Stryker brake, suspension, and power pack subsystems to allow students to train repeatedly on removal and replacement of line replaceable units (LRUs). A similar six-seat classroom and HQT was used to train MOS 45K students troubleshooting and maintenance of the Stryker RWS. In 2010, the Army combined the 63B and 45K MOS into the new 91S MOS and as part of the Army Base Realignment and Closure (BRAC), the school for both the 63B and 45K MOS's was moved from Aberdeen Proving Ground, MD to Fort Lee, VA and incorporated into the Ordnance School's Wheel Maintenance Training Department (WMTD). As part of the move, two 20 student classrooms were built at Fort Lee. The two 20 station classrooms virtual DTT currently support the Remote Weapon System (RWS), Anti-Tank Guided Missile (ATGM), Mortar Carrier (MC) and automotive portions of the Interactive Electronic Technical Manuals (IETM). The current DTTs utilize 2-D graphics for the student interface.

b. Justification: Under the current delivery order 0002, DiSTI has been responsible for developing and generating 3-D graphics for the MGS while working with a sub-contractor to generate software to allow students to follow the Interactive Electronic Technical Manuals (IETM) for the MGS troubleshooting and maintenance tasks. Any other contractor would not have the economy and efficiency to develop the in-house expertise on the developmental software that DiSTI utilized to generate the 3-D graphics for Phase IV in order to maintain interface commonality with the new software. This would require an additional three to four months to the proposed 18 months period of performance, additional costs, schedule delays, and developmental and design rework (see Table 1). DiSTI is the only contractor, in the interest of economy and efficiency, that has the expertise and has already overcome the learning curve in 3-D graphic design and the lessons developed for the MGS. With the current DiSTI Team in place the Government anticipates the 18 month timeline for converting lessons to 3-D can be met. A sole source order to DiSTI for the software upgrades and conversion of 2-D to 3-D graphics is in the best interest of the Government. DiSTI is capable of fully meeting the Government's requirement without incurring additional upfront costs or delaying the program.





A competition resulting in a contractor other than DiSTI will require extensive involvement of Government Technical Team and Subject Matter Experts (SME) from the Wheel Maintenance Training Department (WMTD) during the design phase as well as extensive engineering input from the current Phase IV prime contractor. The availability of any instructor to serve as a SME during a design phase is extremely unlikely or unavailable as the WMTD has indicated in past efforts that they can only support limited testing of the completed design. Any new contractor would also have to develop a thorough understanding of the existing software architecture and the interfaces between the Government Furnished Property (i.e. the two 20 student classrooms) and the Stryker Hands-on Trainers (HOT) and Part Task Trainers (PTT) since the same software supports the entire Stryker MTS suit of trainers. Additionally, the Government would need to perform extensive software validation of the final solution to determine whether it meets all of the Stryker MTS performance requirements.



c. Impact: Without this upgrade, the desired training for the maintenance personnel will continue to be degraded due the requirement for students to learn possibly two different interfaces to the DTT software. The time allowed by the Program of Instruction limits the time each class has on the trainer. The instructors will have to utilize part of that time to teach the 2-D as well as the 3-D interfaces thereby reducing the time allowed for actual troubleshooting and maintenance training.

6. Efforts to Obtain Competition: A Notice of Intent to Sole Source was posted on the Federal Business Opportunities (FedBizOpps) website and the PEO STRI Business

Opportunities Portal (STRI-BOP) from 31 August 2015 to 30 September 2015. One response was received [REDACTED]

[REDACTED] it was determined they did not have either the expertise or the technical knowledge of the Stryker MTS to be successful in this effort. Based on the information contained in paragraph 5 above, competition for this action is not feasible.

7. Actions to Increase Competition: The requiring activity is currently preparing specifications that will be adequate for full and open competition on a follow-on requirement anticipated for execution during FY17. Market Research will be performed for the follow-on requirement to identify all potential sources. The remainder of the Stryker MTS Phase V effort is currently projected for FY17 through FY19. This follow-on effort will include the remainder of the 3-D conversion for the other Stryker MTS DTT lessons and an additional 20 simulators. After completion of the current Phase IV effort, the Government will have sufficient technical information to compete an acquisition for the remaining 3-D conversion effort. The 3-D conversion of any remaining DTT software will be an integral part of that effort as the DTT and HOTs must utilize the same software.

8. Market Research: As stated above, market research for the current Stryker Diagnostic Troubleshooting Trainer (DTT) Three Dimensional (3-D) Graphics Conversion for Stryker DTT lessons was conducted from 31 August through 30 September 2015. This Market Research was supported by background research conducted via a Sources Sought Notice (SSN). PEO STRI issued a SSN on 31 August 2015 to investigate industry capabilities to support development of Stryker Diagnostic Troubleshooting Trainer (DTT) Three Dimensional (3-D) Graphics Conversion for Stryker DTT lessons for the Stryker MTS an ongoing ground combat vehicles maintenance training program. The SSN requested written responses from Industry with the intent to assess their ability to provide capabilities, as defined by the Government's requirement. As stated above, one industry response was collected and analyzed to support recommendations for multiple aspects of the acquisition, including determination of availability of businesses with relevant experience, capabilities and personnel to perform the work necessary. Review of the technical and production capabilities of the respondent indicated the company has limited background and experience necessary to fulfill the requirement. During this research, it was determined that no existing commercial or military product is capable of supporting all of the Stryker MTS Phase IV requirements.

9. Interested Sources: A Notice of Intent to Sole Source was posted on the FedBizOpps website and the PEO STRI-BOP from 31 August 2015 – 30 September 2015. As discussed in paragraph 6, one response was received as a result of these postings and to date, no other sources have written to express an interest; however all offers received shall be considered. In accordance with FAR 5.202(a)(6), this requirement is not required to be synopsisized as this action is an order placed under FAR 16.5.

10. Other Facts:

a. Procurement history. In 2003, the original competitive award, N61339-01-D-0722 DO 0006, for the STRYKER MTS was made. The Army acquired the Stryker Maintenance Training System (MTS), which was designed to train Soldiers to maintain, troubleshoot and repair the Stryker vehicle and its remote weapons system (RWS). The Stryker MTS was declared ready for training (RFT) in April 2006. The Stryker MTS was designed and fielded by an IPT consisting of the U.S. Army Program Executive Office for Simulation, Training and Instrumentation (PEO STRI), Rockwell Collins Simulation Training Systems (RCSTS), Binghamton, NY, and U.S. Army subject matter experts (SMEs) based at the U.S. Army Ordinance Center, ORD Maintenance School, Advanced Individual Training (AIT) Division, located at Aberdeen Proving Ground, MD.

b. On 26 August 2014, PEO STRI W900KK-09-D-0562-0002, was competitively awarded to DiSTI for the development of Stryker MGS maintenance and troubleshooting software for the Stryker DTTs which included conversion of 2-D to 3-D graphics for the first time.

11. Technical Certification: "I certify that the supporting data under my cognizance which are included in the EFO are accurate and complete to the best of my knowledge and belief."

NAME: [REDACTED] DATE: [REDACTED]
TITLE: PROJECT ENGINEER SIGNATURE: [REDACTED]

12. Requirements Certification: "I certify that the supporting data under my cognizance which are included in the EFO are accurate and complete to the best of my knowledge and belief."

NAME: [REDACTED] DATE: 05 April 2016
TITLE: CHIEF ENGINEER SIGNATURE: [REDACTED]

13. Fair And Reasonable Cost Determination: "I hereby determine that the anticipated cost to the Government for this contract action will be fair and reasonable." This determination will be based on a comparison to the IGCE prepared by the requiring activity; and price analysis techniques including a published price list, as applicable, to determine the price is fair and reasonable. Certified cost and pricing data will be required.

NAME: [REDACTED] DATE: 05 Apr 2016
TITLE: CONTRACTING OFFICER SIGNATURE: [REDACTED]

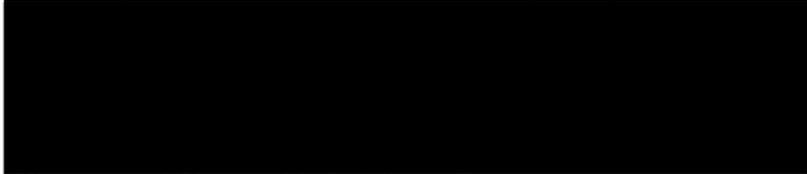
14. Contracting Officer Certification: "I certify that this EFO is accurate and complete to the best of my knowledge and belief."

NAME: [REDACTED] DATE: 05 Apr 2016
TITLE: CONTRACTING OFFICER SIGNATURE: [REDACTED]

APPROVAL

Based on the foregoing justification, I hereby approve the procurement to provide MTS DTT 3-D software upgrades for the Stryker DTT lessons on an exception to fair opportunity basis pursuant to the authority of FAR 16.505(b)(2)(i)(C), subject to availability of funds and provided the supplies and services herein described have otherwise been authorized for acquisition.

DATE: 26 APR 16



Command Competition Advocate